

December 17, 2019

Alan Sundquist CDW Consultants, Inc. 6 Huron Drive Natick, MA 01760

Project Location: 240 Beaver St. Waltham, MA

Client Job Number: Project Number: 1830.1

Laboratory Work Order Number: 19L0400

Michelle Koch

Enclosed are results of analyses for samples received by the laboratory on December 10, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michelle M. Koch Project Manager

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CDW Consultants, Inc. 6 Huron Drive Natick, MA 01760 ATTN: Alan Sundquist

PURCHASE ORDER NUMBER:

REPORT DATE: 12/17/2019

PROJECT NUMBER:

1830.1

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

19L0400

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION:

240 Beaver St. Waltham, MA

FIELD SAMPLE#	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Gp4-1 (3-5')	19L0400-01	Soil	,	SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8270D-E	
Gp4-2 (4-6')	19L0400-02	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8270D-E	
Gp4-3 (4-6')	19L0400-03	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8270D-E	
Gp4-4 (3-5')	19L0400-04	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8270D-E	
Gp4-5 (6-8')	19L0400-05	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8270D-E	
Gp4-6 (3-5')	19L0400-06	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8270D-E	
Gp4-7 (3-5')	19L0400-07	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8270D-E	
Gp4-9 (0-2')	19L0400-08	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8270D-E	
Gp4-2 (6-8')	19L0400-09	Soil		SM 2540G	
				SW-846 8082A	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.



SW-846 6010D

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be climinated. Analyte & Samples(s) Qualified:

Antimony

19L0400-01[Gp4-1 (3-5')], B248351-MS1

19L0400-01[Gp4-1 (3-5')], B248351-MS1

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. Analyte & Samples(s) Qualified:

Decachlorobiphenyl

19L0400-09[Gp4-2 (6-8')]

Decachlorobiphenyl [2C]

19L0400-09[Gp4-2 (6-8')]

Tetrachloro-m-xylene

19L0400-09[Gp4-2 (6-8')]

Tetrachloro-m-xylene [2C]

19L0400-09[Gp4-2 (6-8')]

SW-846 8270D-E

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

19L0400-01[Gp4-1 (3-5')], B248158-MS1, B248158-MSD1

4-Chloroaniline

19L0400-01[Gp4-1 (3-5')], B248158-MS1, B248158-MSD1

Aniline

19L0400-01[Gp4-1 (3-5')], B248158-MS1, B248158-MSD1

Hexachloroethane

19L0400-01[Gp4-1 (3-5')], B248158-MS1, B248158-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,4-Dichlorobenzene

B248158-MS1

2-Chloronaphthalene

B248158-MS1

Hexachlorobenzene

B248158-MS1

RL-08

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

19L0400-01[Gp4-1 (3-5')], 19L0400-02[Gp4-2 (4-6')], 19L0400-03[Gp4-3 (4-6')], 19L0400-04[Gp4-4 (3-5')], 19L0400-05[Gp4-5 (6-8')], 19L0400-05[Gp4-6 (3-5')],)L0400-07[Gp4-7 (3-5')]



V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Pentachlorophenol

 $19L0400-04[Gp4-4\ (3-5')],\ 19L0400-05[Gp4-5\ (6-8')],\ 19L0400-06[Gp4-6\ (3-5')],\ 19L0400-07[Gp4-7\ (3-5')],\ 19L0400-08[Gp4-9\ (0-2')],\ S043741-CCV1,\ S043758-CCV1$

Pyrene

19L0400-01[Gp4-1 (3-5')], 19L0400-02[Gp4-2 (4-6')], 19L0400-03[Gp4-3 (4-6')], B248158-BLK1, B248158-BS1, B248158-BSD1, B248158-MS1, B248158-MSD1, S043694-CCV1

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.

estimated. Analyte & Samples(s) Qualified:

4-Chloroaniline

 $19L0400-04[Gp4-4\ (3-5')],\ 19L0400-05[Gp4-5\ (6-8')],\ 19L0400-06[Gp4-6\ (3-5')],\ 19L0400-07[Gp4-7\ (3-5')],\ 19L0400-08[Gp4-9\ (0-2')],\ S043741-CCV1,\ S043758-CCV1$

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington Technical Representative

na Wasslengton

Work Order: 19L0400



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Date Received: 12/10/2019
Field Sample #: Gp4-1 (3-5')

Sampled: 12/9/2019 08:05

Sample ID: 19L0400-01

Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Sample Plags, KL-06			Semivolatile Organic C	compounds b	y GC/MS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Preparee	Date/Time	
Acenaphthene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19		Analyst
Acenaphthylene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19		
Acetophenone	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19		
Aniline	ND	0.72	mg/Kg dry	2	MS-09	SW-846 8270D-E			
Anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	
Benzo(a)anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Benzo(a)pyrene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Benzo(b)fluoranthene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Benzo(g,h,i)perylene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Benzo(k)fluoranthene	ND	0.36	mg/Kg dry	2			12/11/19	12/12/19 17:41	IMR
Bis(2-chloroethoxy)methane	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Bis(2-chloroethyl)ether	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Bis(2-chloroisopropyl)ether	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.72	mg/Kg dry			SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
4-Bromophenylphenylether	ND	0.72	·	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Butylbenzylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
4-Chloroaniline	ND	1.4	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
2-Chloronaphthalene	ND	0.72	mg/Kg dry	2	MS-09	SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
2-Chlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Chrysene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Dibenz(a,h)anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Dibenzofuran	ND		mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Di-n-butylphthalate		0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
,2-Dichlorobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
,3-Dichlorobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
,4-Dichlorobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
,3-Dichlorobenzidine	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
,4-Dichlorophenol	ND	0.36	mg/Kg dry	2	MS-09	SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
iethylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
4-Dimethylphenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
imethylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
4-Dinitrophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
4-Dinitrotoluene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
5-Dinitrotoluene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
-n-octylphthalate	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	
2-Diphenylhydrazine/Azobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
ioranthene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
iorene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E		12/12/19 17:41	IMR
xachlorobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E			IMR
xachlorobutadiene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E			IMR
xachloroethane	ND	0.72	mg/Kg dry	2	MS-09	SW-846 8270D-E			IMR
eno(1,2,3-cd)pyrene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E			IMR
phorone	ND	0.72	mg/Kg dry	2					IMR
Aethylnaphthalene		0.36	mg/Kg dry	2		SW-846 8270D-E			IMR
	- · · -		E. V.R at A	4		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR

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Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-1 (3-5')

Sampled: 12/9/2019 08:05

Sample ID: 19L0400-01
Sample Matrix: Soil

Sample Flags: RL-08		Semi	volatile Organic Co	mpounds by	GC/MS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
3/4-Methylphenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Naphthalene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Nitrobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
2-Nitrophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
4-Nitrophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Pentachlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Phenanthrene	ND	0.36	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Phenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Pyrene	ND	0.36	mg/Kg dry	2	V-05	SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
1,2,4-Trichlorobenzene	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
2,4,5-Trichlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
2,4,6-Trichlorophenol	ND	0.72	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 17:41	IMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		48.4	30-130					12/12/19 17:41	
Phenol-d6		48.2	30-130					12/12/19 17:41	
Nitrobenzene-d5		44.5	30-130					12/12/19 17:41	
2-Fluorobiphenyl		55.0	30-130					12/12/19 17:41	
2,4,6-Tribromophenol		47.8	30-130					12/12/19 17:41	
p-Terphenyl-d14		53.4	30-130					12/12/19 17:41	



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019 Field Sample #: Gp4-1 (3-5')

Sampled: 12/9/2019 08:05

Sample ID: 19L0400-01 Sample Matrix: Soil

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1	MS-07	SW-846 6010D	12/13/19	12/16/19 21:10	МЈН
Arsenic	12	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЈН
Barium	37	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЈН
Beryllium	0.37	0.18	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЈН
Cadmium	0.25	0.18	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	MJH
Chromium	31	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЛН
Lead	46	0.53	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЈН
Mercury	ND	0.027	mg/Kg dry	1		SW-846 7471B	12/11/19	12/12/19 11:51	CJV
Nickel	22	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЈН
Selenium	ND	3.5	mg/Kg dry	1	MS-07	SW-846 6010D	12/13/19	12/16/19 21:10	MJH
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЈН
Thallium	ND	1.8	mg/Kg dry	I		SW-846 6010D	12/13/19	12/16/19 21:10	МЈН
Vanadium	56	0.70	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЈН
Zinc	57	0.70	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:51	МЈН



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019 Field Sample #: Gp4-1 (3-5')

Sampled: 12/9/2019 08:05

Sample ID: 19L0400-01
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		94.3		% Wt	1		SM 2540G	12/11/19	12/11/19 15:03	adb

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019 Field Sample #: Gp4-2 (4-6')

Sampled: 12/9/2019 08:40

Sample ID: 19L0400-02

Samo	le M	(atrix:	Soi

Sample Matrix: Soil									
Sample Flags: RL-08			Semivolatile Organic C	ompounds by	GC/MS				
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Acenaphthene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Acenaphthylene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Acetophenone	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Aniline	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Benzo(a)anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Benzo(a)pyrene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Benzo(b)fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Benzo(g,h,i)perylene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Benzo(k)fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Bis(2-chloroethoxy)methane	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Bis(2-chloroethyl)ether	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Bis(2-chloroisopropyl)ether	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
4-Bromophenylphenylether	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Butylbenzylphthalate	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
4-Chloroaniline	ND	1.5	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
2-Chloronaphthalene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
2-Chlorophenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Chrysene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Dibenz(a,h)anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Dibenzofuran	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Di-n-butylphthalate	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
1,2-Dichlorobenzene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
1,3-Dichlorobenzene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
1,4-Dichlorobenzene	ND	0.75		2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
3.3-Dichlorobenzidine	ND ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
2,4-Dichlorophenol			mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
•	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Diethylphthalate	ND	0.75	mg/Kg dry				12/11/19	12/12/19 18:06	IMR
2,4-Dimethylphenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Dimethylphthalate	ND	0.75	mg/Kg dry	2		SW-846 8270D-E			
2,4-Dinitrophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D-E	12/11/19 12/11/19	12/12/19 18:06 12/12/19 18:06	IMR DATE
2,4-Dinitrotoluene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E			IMR
2,6-Dinitrotoluene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Di-n-octylphthalate	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Fluorene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Hexachlorobenzene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Hexachlorobutadiene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Hexachloroethane	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Indeno(1,2,3-cd)pyrene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Isophorone	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
2-Methylnaphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-2 (4-6')

Sampled: 12/9/2019 08:40

Sample ID: 19L0400-02

Sample Matrix: Soil
Sample Flags: RL-08

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
3/4-Methylphenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Naphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Nitrobenzene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
2-Nitrophenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
4-Nitrophenol	ND	1.5	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Pentachlorophenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Phenanthrene	ND	0.37	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Phenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Pyrene	ND	0.37	mg/Kg dry	2	V-05	SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
1,2,4-Trichlorobenzene	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
2,4,5-Trichlorophenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
2,4,6-Trichlorophenol	ND	0.75	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:06	IMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		48.7	30-130					12/12/19 18:06	
Phenol-d6		48.3	30-130					12/12/19 18:06	
Nitrobenzene-d5		44.0	30-130					12/12/19 18:06	
2-Fluorobiphenyl		57.5	30-130					12/12/19 18:06	
2,4,6-Tribromophenol		48.6	30-130					12/12/19 18:06	
p-Terphenyl-d14		57.2	30-130					12/12/19 18:06	

Work Order: 19L0400



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Date Received: 12/10/2019 Field Sample #: Gp4-2 (4-6')

Sampled: 12/9/2019 08:40

Sample ID: 19L0400-02 Sample Matrix: Soil

Metals Analyses (Total)										
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst	
Antimony	ND	1.8	mg/Kg dry	l		SW-846 6010D	12/13/19	12/16/19 15:56	МЈН	
Arsenic	5.3	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЛН	
Barium	46	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЈН	
Beryllium	0.25	0.18	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЈН	
Cadmium	0.36	0.18	mg/Kg dry	I		SW-846 6010D	12/13/19	12/16/19 15:56	МЈН	
Chromium	21	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЈН	
Lead	35	0.53	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЛН	
Mercury	ND	0.028	mg/Kg dry	1		SW-846 7471B	12/11/19	12/12/19 11:53	CJV	
Nickel	13	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЈН	
Selenium	ND	3.5	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЈН	
Silver	1.9	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЛН	
Thallium	ND	1.8	mg/Kg dry	ì		SW-846 6010D	12/13/19	12/16/19 21:16	МЛН	
Vanadium	38	0.71	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЈН	
Zinc	110	0.71	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 15:56	МЛН	



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019
Field Sample #: Gp4-2 (4-6')

Sampled: 12/9/2019 08:40

Sample ID: 19L0400-02
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		90.8		% Wt	ī		SM 2540G	12/11/19	12/11/19 15:03	adb



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-3 (4-6')

Sampled: 12/9/2019 09:30

Sample ID: 19L0400-03

Sample Matrix: Soil

Sample Flags: RL-08			Semivolatile Organic C	compounds by	GC/MS				
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Acenaphthene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Acenaphthylene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Acetophenone	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Aniline	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Anthracene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Benzo(a)anthracene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Benzo(a)pyrene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Benzo(b)fluoranthene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Benzo(g,h,i)perylene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Benzo(k)fluoranthene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Bis(2-chloroethoxy)methane	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Bis(2-chloroethyl)ether	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Bis(2-chloroisopropyl)ether	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Bis(2-Ethylhexyl)phthalate	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
4-Bromophenylphenylether	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Butylbenzylphthalate	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
4-Chloroaniline	ND	1.4	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2-Chloronaphthalene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2-Chlorophenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Chrysene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Dibenz(a,h)anthracene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Dibenzofuran	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Di-n-butylphthalate	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
1,2-Dichlorobenzene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
1,3-Dichlorobenzene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
1,4-Dichlorobenzene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
3,3-Dichlorobenzidine	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2,4-Dichlorophenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Diethylphthalate	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2,4-Dimethylphenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Dimethylphthalate	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2,4-Dinitrophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2,4-Dinitrotoluene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2,6-Dinitrotoluene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Di-n-octylphthalate	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
1,2-Diphenylhydrazine/Azobenzene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Fluoranthene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Fluorene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Hexachlorobenzene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
iexachlorobutadiene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Hexachloroethane	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Indeno(1,2,3-cd)pyrene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Isophorone	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2-Methylnaphthalene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR

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Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-3 (4-6')

Sampled: 12/9/2019 09:30

Sample ID: 19L0400-03

Sample	Matrix	: Soil
Sample	Flags:	RL-08

Semivolatile	Organic	Compounds	by ·	GC/MS
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Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
3/4-Methylphenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Naphthalene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Nitrobenzene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2-Nitrophenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
4-Nitrophenol	ND	1.4	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Pentachlorophenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Phenanthrene	ND	0.35	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Phenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Pyrene	ND	0.35	mg/Kg dry	2	V-05	SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
1,2,4-Trichlorobenzene	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2,4,5-Trichlorophenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
2,4,6-Trichlorophenol	ND	0.71	mg/Kg dry	2		SW-846 8270D-E	12/11/19	12/12/19 18:31	IMR
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		39.8	30-130					12/12/19 18:31	
Phenol-d6		38.8	30-130					12/12/19 18:31	
Nitrobenzene-d5		35.2	30-130					12/12/19 18:31	
2-Fluorobiphenyl		44.7	30-130					12/12/19 18:31	
2,4,6-Tribromophenol		38.7	30-130					12/12/19 18:31	
p-Terphenyl-d14		43.8	30-130					12/12/19 18:31	



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019
Field Sample #: Gp4-3 (4-6')

Sampled: 12/9/2019 09:30

Sample ID: 19L0400-03
Sample Matrix: Soil

			Metals Analy	ses (Total)					
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЛН
Arsenic	7.9	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Barium	31	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЛН
Beryllium	0.31	0.18	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Cadmium	ND	0.18	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Chromium	34	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Lead	39	0.53	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	12/11/19	12/12/19 11:55	CJV
Nickel	23	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Selenium	ND	3.5	mg/Kg dry	l		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Silver	ND	0.35	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 21:36	МЈН
Vanadium	62	0.70	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН
Zinc	51	0.70	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:15	МЈН



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019
Field Sample #: Gp4-3 (4-6')

Sampled: 12/9/2019 09:30

Sample ID: 19L0400-03
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	12/11/19	12/11/19 15:04	adb

Work Order: 19L0400



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Date Received: 12/10/2019
Field Sample #: Gp4-4 (3-5')

Sampled: 12/9/2019 09:50

Sample ID: 19L0400-04
Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Acenaphthylene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Асеторнепопе	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Aniline	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Anthracene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Benzo(a)anthracene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Benzo(a)pyrene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Benzo(b)fluoranthene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Benzo(g,h,i)perylene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Benzo(k)fluoranthene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Bis(2-chloroethoxy)methane	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Bis(2-chloroethyl)ether	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Bis(2-chloroisopropyl)ether	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Bis(2-Ethylhexyl)phthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
4-Bromophenylphenylether	ND	1,7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Butylbenzylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
1-Chloroaniline	ND	3.4	mg/Kg dry	4	V-34	SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2-Chloronaphthalene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2-Chlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Chrysene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Dibenz(a,h)anthracene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Dibenzofuran	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Di-n-butylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
1,2-Dichlorobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
1,3-Dichlorobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
1,4-Dichlorobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
3,3-Dichlorobenzidine	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2,4-Dichlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Diethylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2,4-Dimethylphenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Dimethylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2,4-Dinitrophenol	ND	3.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2,4-Dinitrotoluene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2,6-Dinitrotoluene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Di-n-octylphthalate	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
1,2-Diphenylhydrazine/Azobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Fluoranthene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Fluorene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Hexachlorobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Hexachlorobutadiene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Hexachloroethane	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Indeno(1,2,3-cd)pyrene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Isophorone	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2-Methylnaphthalene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB

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Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-4 (3-5')

Sampled: 12/9/2019 09:50

Sample ID: 19L0400-04

Sample Matrix: Soil

Sample Flags: RL-08		Semi	volatile Organic Co	mpounds by	GC/MS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
3/4-Methylphenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Naphthalene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Nitrobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2-Nitrophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
4-Nitrophenol	ND	3.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Pentachlorophenol	ND	1.7	mg/Kg dry	4	V-05	SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Phenanthrene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Phenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Pyrene	ND	0.86	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
1,2,4-Trichlorobenzene	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2,4,5-Trichlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
2,4,6-Trichlorophenol	ND	1.7	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:07	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		49.4	30-130					12/13/19 21:07	
henol-d6		52.3	30-130					12/13/19 21:07	
Nitrobenzene-d5		48.1	30-130					12/13/19 21:07	
2-Fluorobiphenyl		51.1	30-130					12/13/19 21:07	
2,4,6-Tribromophenol		34.5	30-130					12/13/19 21:07	
p-Terphenyl-d14		51.1	30-130					12/13/19 21:07	



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019
Field Sample #: Gp4-4 (3-5')

Sampled: 12/9/2019 09:50

Sample ID: 19L0400-04
Sample Matrix: Soil

	Metals Analyses (Total)											
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst			
Antimony	ND	2.1	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЛН			
Arsenic	7.9	2.1	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЛН			
Barium	46	2.1	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЈН			
Beryllium	0.44	0.21	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЈН			
Cadmium	ND	0.21	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЈН			
Chromium	29	0.43	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЛН			
Lead	28	0.64	mg/Kg dry	İ		SW-846 6010D	12/13/19	12/16/19 16:21	МЈН			
Mercury	0.036	0.033	mg/Kg dry	1		SW-846 7471B	12/11/19	12/12/19 12:00	CJV			
Nickel	22	0.43	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЈН			
Selenium	ND	4.3	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЈН			
Silver	ND	0.43	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЈН			
Thallium	ND	2.1	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 21:42	МЛН			
Vanadium	56	0.85	mg/Kg dry	l		SW-846 6010D	12/13/19	12/16/19 16:21	МЈН			
Zinc	65	0.85	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:21	МЛН			



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-4 (3-5')

Sampled: 12/9/2019 09:50

Sample ID: 19L0400-04
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

							Date	Date/Time	
Analyt	e Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids	77.4		% Wt	1		SM 2540G	12/11/19	12/11/19 15:04	adb



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019 Field Sample #: Gp4-5 (6-8')

Sampled: 12/9/2019 10:20

Sample ID: 19L0400-05 Sample Matrix: Soil

Sample Flags: RL-08			Semivolatile Organic C	ompounds by	GC/MS	,		-	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Acenaphthylene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Acetophenone	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Aniline	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Anthracene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Benzo(a)anthracene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Benzo(a)pyrene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Benzo(b)fluoranthene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Benzo(g,h,i)perylene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Benzo(k)fluoranthene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Bis(2-chloroethoxy)methane	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Bis(2-chloroethyl)ether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Bis(2-chloroisopropyl)ether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Bis(2-Ethylhexyl)phthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
4-Bromophenylphenylether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Butylbenzylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
4-Chloroaniline	ND	2.8	mg/Kg dry	4	V-34	SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2-Chloronaphthalene		1.4			V-3-4	SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2-Chlorophenol	ND		mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Chrysene	ND	1.4	mg/Kg dry	4					
•	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Dibenz(a,h)anthracene Dibenzofuran	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Di-n-butylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
1,2-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
1,3-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
1,4-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
3,3-Dichlorobenzidine	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2,4-Dichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Diethylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2,4-Dimethylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Dimethylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2,4-Dinitrophenol	ND	2.8	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2,4-Dinitrotoluene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2,6-Dinitrotoluene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Di-n-octylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
1,2-Diphenylhydrazine/Azobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Fluoranthene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Fluorene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Hexachlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Aexachlorobutadiene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Hexachloroethane	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Indeno(1,2,3-cd)pyrene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Isophorone	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2-Methylnaphthalene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
								Page 24	

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Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019
Field Sample #: Gp4-5 (6-8')

Sampled: 12/9/2019 10:20

Sample ID: 19L0400-05

Samole Matrix: Soil Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

. •			_	-					
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
2-Methylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
3/4-Methylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Naphthalene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Nitrobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2-Nitrophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
4-Nitrophenol	ND	2.8	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Pentachlorophenol	ND	1.4	mg/Kg dry	4	V-05	SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Phenanthrene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Phenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Pyrene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
1,2,4-Trichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2,4,5-Trichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
2,4,6-Trichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:30	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		50.1	30-130	**************************************				12/13/19 21:30	
Phenol-d6		54.0	30-130					12/13/19 21:30	
Nitrobenzene-d5		48.1	30-130					12/13/19 21:30	
2-Fluorobiphenyl		54.0	30-130					12/13/19 21:30	
2,4,6-Tribromophenol		33.8	30-130					12/13/19 21:30	
p-Terphenyl-d14		52.3	30-130					12/13/19 21:30	



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019 Field Sample #: Gp4-5 (6-8')

Sampled: 12/9/2019 10:20

Sample ID: 19L0400-05 Samole Matrix: Soil

			Metals Anal	ses (Total)		_			
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЛН
Arsenic	17	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЈН
Barium	28	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЛН
Beryllium	0.34	0.18	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЈН
Cadmium	0.27	0.18	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЈН
Chromium	29	0.36	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЛН
Lead	27	0.53	mg/Kg dry	l		SW-846 6010D	12/13/19	12/16/19 16:27	МЈН
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	12/11/19	12/12/19 12:02	СЈУ
Nickel	24	0.36	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЈН
Selenium	ND	3.6	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЛН
Silver	ND	0.36	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЛН
Thallium	ND	1.8	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 21:48	МЛН
Vanadium	70	0.71	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЈН
Zinc	49	0.71	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:27	МЈН



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-5 (6-8')

Sampled: 12/9/2019 10:20

Sample ID: 19L0400-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		92.7		% Wt	1		SM 2540G	12/11/19	12/11/19 15:05	adb



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-6 (3-5')

Sampled: 12/9/2019 10:55

Sample ID: 19L0400-06
Sample Matrix: Soil

Semivolatil	: Organic	Compounds	by GC/MS
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Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.72	mg/Kg dry	4	11-6 64-1	SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Acenaphthylene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Acetophenone	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Aniline	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Anthracene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Benzo(a)anthracene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Benzo(a)pyrene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Benzo(b)fluoranthene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Benzo(g,h,i)perylene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Benzo(k)fluoranthene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Bis(2-chloroethoxy)methane	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Bis(2-chloroethyl)ether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Bis(2-chloroisopropyl)ether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Bis(2-Ethylhexyl)phthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
4-Bromophenylphenylether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Butylbenzylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
4-Chloroaniline	ND	2.8	mg/Kg dry	4	V-34	SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2-Chloronaphthalene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2-Chlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Chrysene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Dibenz(a,h)anthracene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Dibenzofuran	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Di-n-butylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
1,2-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
1,3-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
1,4-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
3,3-Dichlorobenzidine	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2,4-Dichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Diethylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2,4-Dimethylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Dimethylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2,4-Dinitrophenol	ND	2.8	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2,4-Dinitrotoluene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2,6-Dinitrotoluene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Di-n-octylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
1,2-Diphenylhydrazine/Azobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Fluoranthene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Fluorene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Hexachlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Hexachlorobutadiene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Hexachloroethane	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Indeno(1,2,3-cd)pyrene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Isophorone	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2-Methylnaphthalene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
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Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-6 (3-5')

Sampled: 12/9/2019 10:55

Sample ID: 19L0400-06

Sample Matrix: Soil
Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

-			•						
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
3/4-Methylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Naphthalene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Nitrobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2-Nitrophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
4-Nitrophenol	ND	2.8	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Pentachlorophenol	ND	1.4	mg/Kg dry	4	V-05	SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Phenanthrene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Phenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Pyrene	ND	0.72	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
1,2,4-Trichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2,4,5-Trichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
2,4,6-Trichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/13/19 21:53	KLB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
2-Fluorophenol		56.8	30-130					12/13/19 21:53	
Phenol-d6		60.9	30-130					12/13/19 21:53	
Nitrobenzene-d5		54.7	30-130					12/13/19 21:53	
2-Fluorobiphenyl		58.4	30-130					12/13/19 21:53	
2,4,6-Tribromophenol		42.7	30-130					12/13/19 21:53	
p-Terphenyl-d14		53.8	30-130					12/13/19 21:53	



Metals Analyses (Total)

Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-6 (3-5')

Sampled: 12/9/2019 10:55

Sample ID: 19L0400-06
Sample Matrix: Soil

					, , ,					
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony		ND	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЛН
Arsenic		11	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЛН
Barium		27	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН
Beryllium		0.30	0.17	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН
Cadmium		ND	0.17	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЛН
Chromium		32	0.34	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН
Lead		24	0.51	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН
Mercury		ND	0.027	mg/Kg dry	1		SW-846 7471B	12/11/19	12/12/19 12:04	CJV
Nickel		24	0.34	mg/Kg dry	I		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН
Selenium		ND	3.4	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН
Silver		ND	0.34	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН
Thallium		ND	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 21:55	МЈН
Vanadium		63	0.68	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН
Zinc		41	0.68	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:33	МЈН



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019
Field Sample #: Gp4-6 (3-5')

Sampled: 12/9/2019 10:55

Sample ID: 19L0400-06
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	12/11/19	12/11/19 15:05	adb



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-7 (3-5')

Sampled: 12/9/2019 11:30

Sample ID: 19L0400-07 Sample Matrix: Soil Sample Flags: RL-08

Semivolatile Organic	: Compounds by	GC/MS
Semirolatile Organic	. Compounds by	00,1,10

							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Acenaphthene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Acenaphthylene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Acetophenone	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Aniline	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Anthracene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Benzo(a)anthracene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Benzo(a)pyrene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Benzo(b)fluoranthene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Benzo(g,h,i)perylene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Benzo(k)fluoranthene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Bis(2-chloroethoxy)methane	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Bis(2-chloroethyl)ether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Bis(2-chloroisopropyl)ether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Bis(2-Ethylhexyl)phthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
4-Bromophenylphenylether	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Butylbenzylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
4-Chloroaniline	ND	2.8	mg/Kg dry	4	V-34	SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
2-Chloronaphthalene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
2-Chlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Chrysene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Dibenz(a,h)anthracene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Dibenzofuran	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Di-n-butylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
1,2-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
1,3-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
1,4-Dichlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
3,3-Dichlorobenzidine	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
2,4-Dichlorophenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Diethylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
2,4-Dimethylphenol	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Dimethylphthalate				4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
2,4-Dinitrophenol	ND	2.8	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
2,4-Dinitrotoluene	ND	1.4	mg/Kg dry			SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
2,6-Dinitrotoluene	ND	1.4	mg/Kg dry	4			12/11/19	12/14/19 14:50	KLB
Di-n-octylphthalate	ND	1.4	mg/Kg dry	4		SW-846 8270D-E			
1,2-Diphenylhydrazine/Azobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Fluoranthene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	
Fluorene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
Hexachlorobenzene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	
Hexachlorobutadiene	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	
Hexachloroethane	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	
Indeno(1,2,3-cd)pyrene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	
Isophorone	ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	
2-Methylnaphthalene	ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	
								Page 32	ा ७/



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019 Field Sample #: Gp4-7 (3-5')

Sampled: 12/9/2019 11:30

Sample ID: 19L0400-07
Sample Matrix: Soil

Sample Flags: RL-08

Semivolatile	Organia	Compounds	her	CCME
Semivoianie	Organic	Compounds	ĐΥ	GC/IVIS

		· ·						
D 14-	73.	TT-24-	D21-42	FI/01	No. ab . J	Date	Date/Time	A sealest
				Flag/Quai				Analyst
ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	2.8	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	1.4	mg/Kg dry	4	V-05	SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	0.71	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
ND	1.4	mg/Kg dry	4		SW-846 8270D-E	12/11/19	12/14/19 14:50	KLB
	% Recovery	Recovery Limits		Flag/Qual				
	54.2	30-130				***************************************	12/14/19 14:50	
	57.6	30-130					12/14/19 14:50	
	50.4	30-130					12/14/19 14:50	
	59.7	30-130					12/14/19 14:50	
	46.5	30-130					12/14/19 14:50	
	61.7	30-130					12/14/19 14:50	
	ND N	ND 1.4 ND 1.4 ND 0.71 ND 1.4 ND 1.4 ND 1.4 ND 0.71 ND 1.4 ND 0.71 ND 1.4 ND 0.71 ND 1.4 ND 1.5 50.4 59.7 46.5	ND 1.4 mg/Kg dry ND 1.4 mg/Kg dry ND 0.71 mg/Kg dry ND 1.4 mg/Kg dry ND 1.4 mg/Kg dry ND 2.8 mg/Kg dry ND 1.4 mg/Kg dry ND 0.71 mg/Kg dry ND 0.71 mg/Kg dry ND 1.4 mg/Kg dry ND <td< td=""><td>ND 1.4 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 2.8 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 1.5 30-130 50.4 30-130 59.7 30-130 46.5 30-130</td><td>ND 1.4 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 2.8 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 1.4 mg</td><td>ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 0.71 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 2.8 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 V-05 SW-846 8270D-E ND 0.71 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 1.5 mg/Kg dry 4 SW-846 8270D-E ND 1.6 mg/Kg dry 4 SW-846 8270D-E ND 1.7 mg/Kg dry 4 SW-846 8270D-E ND 1.8 mg/Kg dry 4 SW-846 8270D-E ND 1.9 mg/Kg dry 4 SW-846 8270D-E ND 1.0 /td><td>Results RL Units Dilution Flag/Qual Method Prepared ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 0.71 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 V-05 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 V-05 SW-846 8270D-E 12/11/19 ND 0.71 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 0.71 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19</td><td>Results RL Units Dilution Flag/Qual Method Prepared Analyzed ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 0.71 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 V-05 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 0.71 mg/Kg dry 4 V-05 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 <</td></td<>	ND 1.4 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 2.8 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 1.5 30-130 50.4 30-130 59.7 30-130 46.5 30-130	ND 1.4 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 2.8 mg/Kg dry 4 ND 1.4 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 0.71 mg/Kg dry 4 ND 1.4 mg	ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 0.71 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 2.8 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 V-05 SW-846 8270D-E ND 0.71 mg/Kg dry 4 SW-846 8270D-E ND 1.4 mg/Kg dry 4 SW-846 8270D-E ND 1.5 mg/Kg dry 4 SW-846 8270D-E ND 1.6 mg/Kg dry 4 SW-846 8270D-E ND 1.7 mg/Kg dry 4 SW-846 8270D-E ND 1.8 mg/Kg dry 4 SW-846 8270D-E ND 1.9 mg/Kg dry 4 SW-846 8270D-E ND 1.0	Results RL Units Dilution Flag/Qual Method Prepared ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 0.71 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 V-05 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 V-05 SW-846 8270D-E 12/11/19 ND 0.71 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 0.71 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19	Results RL Units Dilution Flag/Qual Method Prepared Analyzed ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 0.71 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 V-05 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 0.71 mg/Kg dry 4 V-05 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 ND 1.4 mg/Kg dry 4 SW-846 8270D-E 12/11/19 12/14/19 14:50 <



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-7 (3-5')

Sampled: 12/9/2019 11:30

Sample ID: 19L0400-07 Sample Matrix: Soil

			Metals Analy	yses (Total)			-		
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Arsenic	16	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Barium	28	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Beryllium	0.33	0.17	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Cadmium	0.24	0.17	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Chromium	32	0.34	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Lead	28	0.51	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	12/11/19	12/12/19 12:05	CJV
Nickel	25	0.34	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Sclenium	ND	3.4	mg/Kg dry	l		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Silver	ND	0.34	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 22:01	МЈН
Vanadium	61	0.67	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН
Zinc	44	0.67	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:39	МЈН



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019
Field Sample #: Gp4-7 (3-5')
Sample ID: 19L0400-07

Sampled: 12/9/2019 11:30

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time		
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst	
% Solids		95.7		% Wt	1		SM 2540G	12/11/19	12/11/19 15:06	adb	



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019 Field Sample #: Gp4-9 (0-2')

Sampled: 12/9/2019 11:55

Sample ID: 19L0400-08

		Se	emivolatile Organic C	ompounds by	GC/MS				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Acetophenone	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Benzo(a)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Benzo(a)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Benzo(b)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Benzo(g,h,i)perylene	ND	0.17	mg/Kg dry	I		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Benzo(k)fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	l		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
4-Chloroaniline	ND	0.68	mg/Kg dry	1	V-34	SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
2-Chloronaphthalene	ND	0.35	mg/Kg dry	ı		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
2-Chlorophenol	ND	0.35	mg/Kg dry	ı		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Chrysene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	ı		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Di-n-butylphthalate	ND	0.35	mg/Kg dry	l		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
1,2-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
1,3-Dichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
,4-Dichlorobenzene	ND	0.35	mg/Kg đry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	i		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Diethylphthalate	ND	0.35	mg/Kg dry	I		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
,2-Diphenylhydrazine/Azobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
luoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
luorene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Iexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
lexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Iexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
ndeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
sophorone	ND	0.35	mg/Kg dry	ī		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB

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Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-9 (0-2')

Sampled: 12/9/2019 11:55

Sample ID: 19L0400-08
Sample Matrix: Soil

Semivolatile O	rganic)	Compounds	by	GC/MS
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							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
2-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
2-Nitrophenol	ND	0.35	mg/Kg dry	I		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Pentachlorophenol	ND	0.35	mg/Kg dry	1	V-05	SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Phenanthrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Pyrene	ND	0.17	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	ı		SW-846 8270D-E	12/11/19	12/13/19 18:24	KLB
Surrogates		% Recovery	Recovery Limits	·	Flag/Qual			***************************************	
2-Fluorophenol		70.6	30-130					12/13/19 18:24	
Phenol-d6		73.6	30-130					12/13/19 18:24	
Nitrobenzene-d5		65.8	30-130					12/13/19 18:24	
2-Fluorobiphenyl		76.7	30-130					12/13/19 18:24	
2,4,6-Tribromophenol		77.9	30-130					12/13/19 18:24	
p-Terphenyl-d14		78.6	30-130					12/13/19 18:24	



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019 Field Sample #: Gp4-9 (0-2')

Sampled: 12/9/2019 11:55

Sample ID: 19L0400-08 Samole Matrix: Soil

			Metals Analy	ses (Total)					
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН
Arsenic	ND	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЛН
Barium	24	1.7	mg/Kg dry	I		SW-846 6010D	12/13/19	12/16/19 16:45	МЛН
Beryllium	0.21	0.17	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН
Cadmium	ND	0.17	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЛН
Chromium	8.7	0.33	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН
Lead	4.5	0.50	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН
Mercury	ND	0.026	mg/Kg dry	1		SW-846 7471B	12/11/19	12/12/19 11:43	CJV
Nickel	7.5	0.33	mg/Kg dry	ı		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН
Selenium	ND	3.3	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН
Silver	ND	0.33	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН
Thallium	ND	1.7	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 22:07	МЈН
Vanadium	22	0.67	mg/Kg dry	l		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН
Zinc	23	0.67	mg/Kg dry	1		SW-846 6010D	12/13/19	12/16/19 16:45	МЈН



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-9 (0-2')

Sampled: 12/9/2019 11:55

Sample ID: 19L0400-08
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		97.1		% Wt	1		SM 2540G	12/11/19	12/11/19 15:06	adb



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

12/14/19 3:10

Date Received: 12/10/2019

Field Sample #: Gp4-2 (6-8')

Sampled: 12/9/2019 08:40

Sample ID: 19L0400-09
Sample Matrix: Soil

Tetrachloro-m-xylene [2]

		Po	olychlorinated Biphe	enyls By GC	ÆCD				
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Aroclor-1221 [1]	ND	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Aroclor-1232 [1]	ND	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Aroclor-1242 [I]	ND	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Aroclor-1248 [1]	ND	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Aroclor-1254 [2]	15	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Aroclor-1260 [1]	51	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Aroclor-1262 [1]	ND	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Aroclor-1268 [1]	ND	6.5	mg/Kg dry	200		SW-846 8082A	12/12/19	12/14/19 3:10	TG
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			12/14/19 3:10	
Decachlorobiphenyl [2]		*	30-150		S-01			12/14/19 3:10	
Tetrachloro-m-xylene [1]		*	30-150		S-01			12/14/19 3:10	

S-01

30-150



Project Location: 240 Beaver St. Waltham, MA

Sample Description:

Work Order: 19L0400

Date Received: 12/10/2019

Field Sample #: Gp4-2 (6-8')

Sampled: 12/9/2019 08:40

Sample ID: 19L0400-09
Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

								Date	Date/Time	
	Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
% Solids		61.7		% Wt	1		SM 2540G	12/11/19	12/11/19 15:06	adb



Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
19L0400-01 [Gp4-1 (3-5')]	B248096	12/11/19
19L0400-02 [Gp4-2 (4-6')]	B248096	12/11/19
19L0400-03 [Gp4-3 (4-6')]	B248096	12/11/19
19L0400-04 [Gp4-4 (3-5')]	B248096	12/11/19
19L0400-05 [Gp4-5 (6-8')]	B248096	12/11/19
19L0400-06 [Gp4-6 (3-5')]	B248096	12/11/19
19L0400-07 [Gp4-7 (3-5')]	B248096	12/11/19
19L0400-08 [Gp4-9 (0-2')]	B248096	12/11/19
19L0400-09 [Gp4-2 (6-8')]	B248096	12/11/19

Prep Method: SW-846 3050B-SW-846 6010D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
19L0400-01 [Gp4-1 (3-5')]	B248351	1.51	50.0	12/13/19	
19L0400-02 [Gp4-2 (4-6')]	B248351	1.55	50.0	12/13/19	
19L0400-03 [Gp4-3 (4-6')]	B248351	1.52	50.0	12/13/19	
19L0400-04 [Gp4-4 (3-5')]	B248351	1.51	50.0	12/13/19	
19L0400-05 [Gp4-5 (6-8')]	B248351	1.52	50.0	12/13/19	
19L0400-06 [Gp4-6 (3-5')]	B248351	1.56	50.0	12/13/19	
'9L0400-07 [Gp4-7 (3-5')]	B248351	1.55	50.0	12/13/19	
_0400-08 [Gp4-9 (0-2')]	B248351	1.54	50.0	12/13/19	

Prep Method: SW-846 7471-SW-846 7471B

Batch	Initial [g]	Final [mL]	Date	
B248100	0.598	50.0	12/11/19	
B248100	0.592	50.0	12/11/19	
B248100	0.606	50.0	12/11/19	
B248100	0.591	50.0	12/11/19	
B248100	0.624	50.0	12/11/19	
B248100	0.591	50.0	12/11/19	
B248100	0.614	50.0	12/11/19	
B248100	0.605	50.0	12/11/19	
	B248100 B248100 B248100 B248100 B248100 B248100	B248100 0.598 B248100 0.592 B248100 0.606 B248100 0.591 B248100 0.591 B248100 0.591 B248100 0.614	B248100 0.598 50.0 B248100 0.592 50.0 B248100 0.606 50.0 B248100 0.591 50.0 B248100 0.624 50.0 B248100 0.591 50.0 B248100 0.591 50.0 B248100 0.614 50.0	B248100 0.598 50.0 12/11/19 B248100 0.592 50.0 12/11/19 B248100 0.606 50.0 12/11/19 B248100 0.591 50.0 12/11/19 B248100 0.624 50.0 12/11/19 B248100 0.591 50.0 12/11/19 B248100 0.591 50.0 12/11/19 B248100 0.614 50.0 12/11/19

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
19L0400-09 [Gp4-2 (6-8')]	B248210	10.0	10.0	12/12/19

Prep Method: SW-846 3546-SW-846 8270D-E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
19L0400-01 [Gp4-1 (3-5')]	B248158	30.2	1.00	12/11/19	
19L0400-02 [Gp4-2 (4-6')]	B248158	30.0	1.00	12/11/19	
1,0400-03 [Gp4-3 (4-6')]	B248158	30.7	1.00	12/11/19	
L0400-04 [Gp4-4 (3-5')]	B248158	30.5	1.00	12/11/19	
19L0400-05 [Gp4-5 (6-8')]	B248158	30.5	1.00	12/11/19	
19L0400-06 [Gp4-6 (3-5')]	B248158	30.4	1.00	12/11/19	
19L0400-07 [Gp4-7 (3-5')]	B248158	30.0	1.00	12/11/19	
9L0400-08 [Gp4-9 (0-2')]	B248158	30.2	1.00	12/11/19	



Sample Extraction Data



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248158 - SW-846 3546										
Blank (B248158-BLK1)			ì	Prepared: 12/	11/19 Analya	zed: 12/12/19)			
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND		mg/Kg wet							
?-Chloronaphthalene	ND	0.34	mg/Kg wet							
Chlorophenol	ND		mg/Kg wet							
chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND		mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND		mg/Kg wet							
1,3-Dichlorobenzene	ND		mg/Kg wet							
1,4-Dichlorobenzene 3.3-Dichlorobenzidine	ND		mg/Kg wet							
3,3-Dichlorobenzidine	ND		mg/Kg wet							
2,4-Dichlorophenol Diethylphthalate	ND		mg/Kg wet							
Diethylphthalate 2,4-Dimethylphenol	ND ND		mg/Kg wet							
2,4-Dimethylphenol Dimethylphthalate	ND		mg/Kg wet							
Otmethylphthalate 2,4-Dinitrophenol	ND		mg/Kg wet							
2,4-Dinitrophenol 2,4-Dinitrotoluene	ND ND		mg/Kg wet mg/Kg wet							
2,4-Dinitrotoluene 2,6-Dinitrotoluene	ND ND		mg/Kg wet mg/Kg wet							
2,6-Dinitrotoluene Di-n-octylphthalate	ND ND		mg/Kg wet mg/Kg wet							
טו-ח-остугритиване ,2-Diphenylhydrazine/Azobenzene	ND ND		mg/Kg wet mg/Kg wet							
, 2-Dipnenyinyarazine/Azobenzene Fluoranthene			mg/Kg wet mg/Kg wet							
Fluoranthene	ND ND		mg/Kg wet mg/Kg wet							
Hexachlorobenzene	ND ND		mg/Kg wet mg/Kg wet							
Hexachlorobutadiene	ND ND		mg/Kg wet							
Hexachloroethane	ND ND		mg/Kg wet							
ndeno(1,2,3-cd)pyrene	ND ND		mg/Kg wet							
sophorone	ND ND		mg/Kg wet							
l-Methylnaphthalene	ND		mg/Kg wet							
l-Methylphenol	ND ND		mg/Kg wet							
/4-Methylphenol	ND ND		mg/Kg wet							
phthalene	ND ND		mg/Kg wet							
robenzene	ND ND		mg/Kg wet							
-Nitrophenol	ND		mg/Kg wet							
-Nitrophenol	ND ND		mg/Kg wet							
entachlorophenol	ND ND		mg/Kg wet							
	111	J.J.								



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248158 - SW-846 3546										. 10103
Blank (B248158-BLK1)				Prepared: 12	2/11/19 Analy	/zed: 12/12/1	9			
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							V-05
Pyridine	ND	0.34	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	5.18		mg/Kg wet	6.60		78.5	30-130			~
Surrogate: Phenol-d6	5.21		mg/Kg wet	6.60		79.0	30-130			
Surrogate: Nitrobenzene-d5	2.38		mg/Kg wet	3.30		72.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.99		mg/Kg wet	3.30		90.6	30-130			
Surrogate: 2,4,6-Tribromophenol	4.45		mg/Kg wet	6.60		67.4	30-130			
Surrogate: p-Terphenyl-d14	2.40		mg/Kg wet	3.30		72.8	30-130			
	2.70									
LCS (B248158-BS1)					/11/19 Analy					A-1-2-
Acenaphthene	1.18	0.17	mg/Kg wet	1.63		72.6	40-140			
Acenaphthylene	1.24	0.17	mg/Kg wet	1.63		76.2	40-140			
Acetophenone	1.19	0.33	mg/Kg wet	1.63		73.1	40-140			
Aniline	0.814	0.33	mg/Kg wet	1.63		50.0	40-140			
Anthracene	1.29	0.17	mg/Kg wet	1.63		79.1	40-140			
Senzo(a)anthracene	1.28	0.17	mg/Kg wet	1.63		78.7	40-140			
nzo(a)pyrene	1.20	0.17	mg/Kg wet	1.63		73.9	40-140			
Benzo(b)fluoranthene	1.21	0.17	mg/Kg wet	1.63		74.2	40-140			
Senzo(g,h,i)perylene	1.20	0.17	mg/Kg wet	1.63		73.9	40-140			
Benzo(k)fluoranthene	1.24	0.17	mg/Kg wet	1.63		75.9	40-140			
Bis(2-chloroethoxy)methane	1.24	0.33	mg/Kg wet	1.63		75.9	40-140			
Bis(2-chloroethyl)ether	1.16	0.33	mg/Kg wet	1.63		71.5	40-140			
Bis(2-chloroisopropyl)ether	1.33	0.33	mg/Kg wet	1.63		81.8	40-140			
Bis(2-Ethylhexyl)phthalate	1,27	0.33	mg/Kg wet	1.63		78.2	40-140			
-Bromophenylphenylether	1.30	0.33	mg/Kg wet	1.63		79.5	40-140			
Butylbenzylphthalate	1.31	0.33	mg/Kg wet	1.63		80.6	40-140			
-Chloroaniline	0.991	0.64	mg/Kg wet	1.63		60.8	15-140			
-Chloronaphthalene	1.05	0.33	mg/Kg wet	1.63		64.3	40-140			
-Chlorophenol	1.17	0.33	mg/Kg wet	1.63		72.1	30-130			
Chrysene	1.21	0.17	mg/Kg wet	1.63		74.2	40-140			
Pibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.63		70.5	40-140			
Pibenzofuran	1.28	0.33	mg/Kg wet	1.63		78.3	40-140			
i-n-butylphthalate	1.24	0.33	mg/Kg wet	1.63		76.3	40-140			
2-Dichlorobenzene	1.07	0.33	mg/Kg wet	1.63		65.6	40-140			
,3-Dichlorobenzene	1.06	0.33	mg/Kg wet	1.63		64.9	40-140			
4-Dichlorobenzene	1.07	0.33	mg/Kg wet	1.63		65.7	40-140			
3-Dichlorobenzidine	1.07	0.17	mg/Kg wet	1.63		66.0	40-140			
4-Dichlorophenol	1.25	0.33	mg/Kg wet	1.63		76.7	30-130			
iethylphthalate	1.23	0.33	mg/Kg wet	1.63		75.3	40-140			
4-Dimethylphenol	1.26	0.33	mg/Kg wet	1.63		77.4	30-130			
imethylphthalate	1.26	0.33	mg/Kg wet	1.63		77.3	40-140			
4-Dinitrophenol	0.420	0.64	mg/Kg wet	1.63		25.8	15-140			
4-Dinitrotoluene	1.22	0.33	mg/Kg wet	1.63		74.8	40-140			
6-Dinitrotoluene	1.33	0.33	mg/Kg wet	1.63		82.0	40-140			
n-octylphthalate	1.31	0.33	mg/Kg wet	1.63		80.3	40-140			
2-Diphenylhydrazine/Azobenzene	1.27	0.33	mg/Kg wet	1.63		77.8	40-140			
luoranthene		0.17	mg/Kg wet				40-140			
luorene	1.23 1.23	0.17	mg/Kg wet	1.63 1.63		75.8 75.7	40-140 40-140			



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B248158 - SW-846 3546											
LCS (B248158-BS1)				Prepared: 12	2/11/19 Analy	zed: 12/12/1	9				
Hexachlorobenzene	1.27	0.33	mg/Kg wet	1.63	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	77.9	40-140				
Hexachlorobutadiene	1.10	0.33	mg/Kg wet	1.63		67.7	40-140				
Hexachloroethane	1.06	0.33	mg/Kg wet	1.63		65.1	40-140				
Indeno(1,2,3-cd)pyrene	1.25	0.17	mg/Kg wet	1.63		76.5	40-140				
Isophorone	1.23	0.33	mg/Kg wet	1.63		75.8	40-140				
2-Methylnaphthalene	1.32	0.17	mg/Kg wet	1.63		80.9	40-140				
2-Methylphenol	1.15	0.33	mg/Kg wet	1.63		70.8	30-130				
3/4-Methylphenol	1.23	0.33	mg/Kg wet	1.63		75.6	30-130				
Naphthalene	1.17	0.17	mg/Kg wet	1.63		71.7	40-140				
Nitrobenzene	1.12	0.33	mg/Kg wet	1.63		68.7	40-140				
2-Nitrophenol	1.18	0.33	mg/Kg wet	1.63		72.6	30-130				
4-Nitrophenol	1,11	0.64	mg/Kg wet	1.63		68.4	15-140				ţ
Pentachlorophenol	0.955	0.33	mg/Kg wet	1.63		58.6	30-130				
Phenanthrene	1.29	0.17	mg/Kg wet	1.63		79.4	40-140				
Phenol	1.17	0.33	mg/Kg wet	1.63		71.5	15-140				†
Pyrene	1.18	0.17	mg/Kg wet	1.63		72.3	40-140			V-05	
Pyridine	0.716	0.33	mg/Kg wet	1.63		43.9	30-140				†
1,2,4-Trichlorobenzene	1.14	0.33	mg/Kg wet	1.63		70.2	40-140				
,5-Trichlorophenol	1.25	0.33	mg/Kg wet	1.63		76.6	30-130				
.,4,6-Trichlorophenol	1.25	0.33	mg/Kg wet	1.63		77.0	30-130				
Surrogate: 2-Fluorophenol	5.08	** ********	mg/Kg wet	6.51		78.0	30-130				—
Surrogate: Phenol-d6	5.04		mg/Kg wet	6.51		77.4	30-130				
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.26		74.9	30-130				
Surrogate: 2-Fluorobiphenyl	3.11		mg/Kg wet	3.26		95.4	30-130				
Surrogate: 2,4,6-Tribromophenol	5.37		mg/Kg wet	6.51		82.4	30-130				
Surrogate: p-Terphenyl-d14	2.63		mg/Kg wet	3.26		80.8	30-130				
LCS Dup (B248158-BSD1)				Prepared: 12	1/11/19 Analy	zed: 12/12/1	9				
Acenaphthene	1.18	0.17	mg/Kg wet	1.66	, 11, 15 141419	71.6	40-140	0.144	30		_
Acenaphthylene	1.25	0.17	mg/Kg wet	1.66		75.7	40-140	0.878	30		
Acetophenone	1.23	0.34	mg/Kg wet	1.66		74.5	40-140	3.59	30		
Aniline	0.841	0.34	mg/Kg wet	1.66		50.8	40-140	3.35	30		
Anthracene	1.30	0.17	mg/Kg wet	1.66		78.3	40-140	0.574	30		
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.66		78.9	40-140	1.87	30		
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.66		75.6	40-140	3.89	30		
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.66		76.1	40-140	4.12	30		
Benzo(g,h,i)perylene	1.19	0.17	mg/Kg wet	1.66		71.7	40-140	1.46	30		
Benzo(k)fluoranthene	1.30	0.17	mg/Kg wet	1.66		78.6	40-140	5.14	30		
Bis(2-chloroethoxy)methane	1.30	0.34	mg/Kg wet	1.66		78.8	40-140	5.31	30		
Bis(2-chloroethyl)ether	1.22	0.34	mg/Kg wet	1.66		73.8	40-140	4.92	30		
Bis(2-chloroisopropyl)ether	1.39	0.34	mg/Kg wet	1.66		83.8	40-140	4.03	30		
Bis(2-Ethylhexyl)phthalate	1.37	0.34	mg/Kg wet	1.66		82.6	40-140	7.14	30		
4-Bromophenylphenylether		0.34	mg/Kg wet	1.66		77.0	40-140	1.55	30		
Butylbenzylphthalate	1.28 1.29	0.34	mg/Kg wet	1.66		77.8	40-140	1.97	30		
4-Chloroaniline		0.66	mg/Kg wet	1.66		62.7	15-140	4.59	30		t
2-Chloronaphthalene	1.04	0.34	mg/Kg wet	1.66		65.6	40-140	3.55	30		,
`Chlorophenol	1.09 1.23	0.34	mg/Kg wet	1.66		74.6	30-130	4.97	30		
rysene		0.17	mg/Kg wet	1.66		78.7	40-140	7.52	30		
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.66		70.1	40-140	0.959	30		
* * *	1.16	0.17	mg/Kg wet	1.66		78.1	40-140	1.36	30		
Disenzofuran Di a hutulahthalata	1.29	0.34	mg/Kg wet	1.66		78.1 78.4	40-140	4.36	30		
Di-n-butylphthalate	1.30	0.34	mg/Kg wet			67.8	40-140	4.94	30		
1,2-Dichlorobenzene	1.12	0.34	mg/rg wet	1.66		07.0	70-170	7.77	JU		



QUALITY CONTROL

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B248158 - SW-846 3546											
LCS Dup (B248158-BSD1)				Prepared: 12	2/11/19 Analy	zed: 12/12/	19				
1,3-Dichlorobenzene	1.09	0.34	mg/Kg wet	1.66		65.7	40-140	2.87	30		
1,4-Dichlorobenzene	1.11	0.34	mg/Kg wet	1.66		67.3	40-140	4.08	30		
3,3-Dichlorobenzidine	1.05	0.17	mg/Kg wet	1.66		63.7	40-140	1.88	30		
2,4-Dichlorophenol	1.28	0.34	mg/Kg wet	1.66		77.2	30-130	2.29	30		
Diethylphthalate	1.25	0.34	mg/Kg wet	1.66		75.4	40-140	1.83	30		
2,4-Dimethylphenol	1.30	0.34	mg/Kg wet	1.66		78.6	30-130	3.18	30		
Dimethylphthalate	1.25	0.34	mg/Kg wet	1.66		75.3	40-140	0.980	30		
2,4-Dinitrophenol	0.430	0.66	mg/Kg wet	1.66		26.0	15-140	2.41	30		†
2,4-Dinitrotoluene	1.29	0.34	mg/Kg wet	1.66		77.8	40-140	5.52	30		
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.66		79.9	40-140	0.853	30		
Di-n-octylphthalate	1.40	0.34	mg/Kg wet	1.66		84.6	40-140	6.88	30		
1,2-Diphenylhydrazine/Azobenzene	1.30	0.34	mg/Kg wet	1.66		78.6	40-140	2.72	30		
Fluoranthene	1.30	0.17	mg/Kg wet	1.66		78.3	40-140	4.86	30		
Fluorene	1.28	0.17	mg/Kg wet	1.66		77.6	40-140	4.07	30		
Hexachlorobenzene	1.26	0.34	mg/Kg wet	1.66		76.0	40-140	0.854	30		
Hexachlorobutadiene	1.16	0.34	mg/Kg wet	1.66		70.1	40-140	5.10	30		
Hexachloroethane	1.09	0.34	mg/Kg wet	1.66		66.0	40-140	2.95	30		
Indeno(1,2,3-cd)pyrene	1.25	0.17	mg/Kg wet	1.66		75.6	40-140	0.406	30		
Isophorone	1.32	0.34	mg/Kg wet	1.66		79.4	40-140	6.30	30		
Methylnaphthalene	1.41	0.17	mg/Kg wet	1.66		85.0	40-140	6.56	30		
Methylphenol	1.23	0.34	mg/Kg wet	1.66		74.3	30-130	6.44	30		
3/4-Methylphenol	1.29	0.34	mg/Kg wet	1.66	•	77.9	30-130	4.74	30		
Naphthalene	1.23	0.17	mg/Kg wet	1.66		74.3	40-140	5.15	30		
Nitrobenzene	1.22	0.34	mg/Kg wet	1.66		73.7	40-140	8.72	30		
2-Nitrophenol	1.26	0.34	mg/Kg wet	1.66		76.4	30-130	6.77	30		
4-Nitrophenol	1.18	0.66	mg/Kg wet	1.66		71.4	15-140	5.88	30		†
Pentachlorophenol	0.962	0.34	mg/Kg wet	1.66		58.1	30-130	0.751	30		
Phenanthrene	1.31	0.17	mg/Kg wet	1.66		79.4	40-140	1.67	30		
Phenol	1.21	0.34	mg/Kg wet	1.66		73.0	15-140	3.66	30		†
Pyrene	1.19	0.17	mg/Kg wet	1.66		71.8	40-140	0.976	30	V-05	
Pyridine	0.733	0.34	mg/Kg wet	1.66		44.3	30-140	2.46	30		ţ
1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol	1.20	0.34	mg/Kg wet	1.66		72.8	40-140	5.17	30		
2,4,6-Trichlorophenol	1.28	0.34 0.34	mg/Kg wet mg/Kg wet	1.66		77.2	30-130	2.37 3.26	30 30		
	1.21	0.34		1.66		73.3	30-130	3.20	30		
Surrogate: 2-Fluorophenol	5.17		mg/Kg wet	6.62		78.0	30-130				
Surrogate: Phenol-d6	5.20		mg/Kg wet	6.62		78.5	30-130				
Surrogate: Nitrobenzene-d5 Surrogate: 2-Fluorobiphenyl	2.52 2.98		mg/Kg wet	3.31		76.1	30-130				
Surrogate: 2,4,6-Tribromophenol	5.40		mg/Kg wet mg/Kg wet	3.31 6.62		90.0 81.5	30-130 30-130				
Surrogate: p-Terphenyl-d14	2.59		mg/Kg wet	3.31		78.1	30-130				
Matrix Spike (B248158-MS1)	Som	ce: 19L0400-			/11/19 Analy	zed: 12/12/1	9				
Acenaphthene	0.804	0.36	mg/Kg dry	1.76	ND		40-140				
Acenaphthylene	0.809	0.36	mg/Kg dry	1.76	ND	45.9	40-140				
Acetophenone	0.828	0.72	mg/Kg dry	1.76	ND	47.0	40-140				
Aniline	0.540	0.72	mg/Kg dry	1.76	ND	30.6 *	40-140			MS-09	
Anthracene	0.870	0.36	mg/Kg dry	1.76	ND	49.4	40-140				
Benzo(a)anthracene	0.897	0.36	mg/Kg dry	1.76	ND	50.9	40-140				
ızo(a)pyrene	0.870	0.36	mg/Kg dry	1.76	· ND	49.4	40-140				
zenzo(b)fluoranthene	0.935	0.36	mg/Kg dry	1.76	ND	53.1	40-140				
Benzo(g,h,i)perylene	0.797	0.36	mg/Kg dry	1.76	ND	45.3	40-140				
Benzo(k)fluoranthene	0.830	0.36	mg/Kg dry	1.76	ND	47.1	40-140				



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248158 - SW-846 3546										
Aatrix Spike (B248158-MS1)	Sour	rce: 19L0400	-01	Prepared: 12	/11/19 Analy:	zed: 12/12/	19			
lis(2-chloroethoxy)methane	0.892	0.72	mg/Kg dry	1.76	ND	50.7	40-140			
Sis(2-chloroethyl)ether	0.858	0.72	mg/Kg dry	1.76	ND	48.7	40-140			
sis(2-chloroisopropyl)ether	0.958	0.72	mg/Kg dry	1.76	ND	54.4	40-140			
sis(2-Ethylhexyl)phthalate	1.04	0.72	mg/Kg dry	1.76	ND	59.2	40-140			
-Bromophenylphenylether	0.783	0.72	mg/Kg dry	1.76	ND	44.4	40-140			
iutylbenzylphthalate	0.903	0.72	mg/Kg dry	1.76	ND	51.3	40-140			
-Chloroaniline	0.628	1.4	mg/Kg dry	1.76	ND	35.6	40-140			MS-09
-Chloronaphthalene	0.677	0.72	mg/Kg dry	1.76	ND	38.4 *	40-140			MS-22
-Chlorophenol	0.802	0.72	mg/Kg dry	1.76	ND	45.5	30-130			
hrysene	0.915	0.36	mg/Kg dry	1.76	ND	52.0	40-140			
ibenz(a,h)anthracene	0.729	0.36	mg/Kg dry	1.76	ND	41.4	40-140			
ibenzofuran	0.858	0.72	mg/Kg dry	1.76	ND	48.7	40-140			
i-n-butylphthalate	0.896	0.72	mg/Kg dry	1.76	ND	50.9	40-140			
2-Dichlorobenzene	0.725	0.72	mg/Kg dry	1.76	ND	41.2	40-140			
3-Dichlorobenzene	0.704	0.72	mg/Kg dry	1.76	ND	40.0	40-140			
4-Dichlorobenzene	0.699	0.72	mg/Kg dry	1.76	ND	39.7 *				MS-22
3-Dichlorobenzidine	0.251	0.36	mg/Kg dry	1.76	ND	14.2 *				MS-09
4-Dichlorophenol	0.857	0.72	mg/Kg dry	1.76	ND	48.6	30-130			
ethylphthalate	0.921	0.72	mg/Kg dry	1.76	ND	52.3	40-140			
4-Dimethylphenol	0.850	0.72	mg/Kg dry	1.76	ND	48.3	30-130			
imethylphthalate	0.859	0.72	mg/Kg dry	1.76	ND	48.8	40-140			
4-Dinitrophenol	0.710	1.4	mg/Kg dry	1.76	ND	40.3	30-130			
4-Dinitrotoluene	0.812	0.72	mg/Kg dry	1.76	ND	46.1	40-140			
6-Dinitrotoluene	0.859	0.72	mg/Kg dry	1.76	ND	48.8	40-140			
i-n-octylphthalate	1.11	0.72	mg/Kg dry	1.76	ND	63.0	40-140			
2-Diphenylhydrazine/Azobenzene	0.839	0.72	mg/Kg dry	1.76	ND	47.6	40-140			
uoranthene	1.03	0.36	mg/Kg dry	1.76	ND	58.8	40-140			
uorene	0.870	0.36	mg/Kg dry	1.76	ND	49.4	40-140			
exachlorobenzene	0.684	0.72	mg/Kg dry	1.76	ND	38.8 *				MS-22
exachlorobutadiene	0.752	0.72	mg/Kg dry	1.76	ND	42.7	40-140			
exachloroethane	0.686	0.72	mg/Kg dry	1.76	ND	39.0 *				MS-09
deno(1,2,3-cd)рутепе	0.842	0.36	mg/Kg dry	1.76	ND	47.8	40-140			
ophorone	0.905	0.72	mg/Kg dry	1.76	ND	51.4	40-140			
Methylnaphthalene Methylphonol	0.931	0.36	mg/Kg dry	1.76	ND	52.8	40-140			
Methylphenol	0.854	0.72	mg/Kg dry	1.76	ND	48.5	30-130			
4-Methylphenol	0.861	0.72	mg/Kg dry	1.76	ND	48.9	30-130			
aphthalene trobenzene	0.817	0.36	mg/Kg dry	1.76	ND	46.4	40-140			
rrobenzene Nitrophenol	0.840	0.72	mg/Kg dry	1.76	ND	47.7	40-140			
Nitrophenol	0.797	0.72	mg/Kg dry	1.76	ND	45.3	30-130			
ntachlorophenol	0.919	1.4 0.72	mg/Kg dry	1.76	ND	52.2	30-130			
ntachtorophenot enanthrene	0.528	0.72	mg/Kg dry	1.76	ND	30.0	30-130			
enantnrene enol	0.968	0.36	mg/Kg dry	1.76	ND	55.0	40-140			
rene	0.830	0.72	mg/Kg dry mg/Kg dry	1.76	ND 0.343	47.2	30-130			3700
,4-Trichlorobenzene	0.980	0.36 0.72		1.76	0.242	41.9	40-140			V-05
,,4-Trichlorophenol	0.778	0.72	mg/Kg dry mg/Kg dry	1.76	ND	44.2	40-140			
,6-Trichlorophenoi	0.814 0.810	0.72	mg/Kg dry	1.76 1.76	ND ND	46.2 46.0	30-130 30-130			
		·····			עע					
rogate: 2-Fluorophenol rogate: Phenol-d6	3.62 3.65		mg/Kg dry	7.04		51.4	30-130			
rrogate: Pnenoi-do rrogate: Nitrobenzene-d5	3.65		mg/Kg dry	7.04		51.8	30-130			
rrogate: Nitropenzene-do rrogate: 2-Fluorobiphenyl	1.71 2.07		mg/Kg dry	3.52 3.52		48.7 58.8	30-130 30-130			
rrogate: 2-Filiorooiphenyi	3.32		mg/Kg dry mg/Kg dry	3.52 7.04		47.2	30-130 30-130			



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	- Limit		20,01	227411					
Batch B248158 - SW-846 3546										****
Matrix Spike (B248158-MS1)	Sour	ce: 19L0400	-01	Prepared: 12	2/11/19 Analy2	ed: 12/12/1	9			
Surrogate: p-Terphenyl-d14	1.73		mg/Kg dry	3.52		49.1	30-130			
Matrix Spike Dup (B248158-MSD1)	Sour	ce: 19L0400	-01	Prepared: 12	2/11/19 Analyz	ed: 12/12/1	9			
Acenaphthene	0.859	0.36	mg/Kg dry	1.76	ND	49.0	40-140	6.69	30	
Acenaphthylene	0.872	0.36	mg/Kg dry	1.76	ND	49.7	40-140	7.53	30	
Acetophenone	0.911	0.72	mg/Kg dry	1.76	ND	51.9	40-140	9.53	30	
Aniline	0.517	0.72	mg/Kg dry	1.76	ND	29.5 *	40-140	4.19	30	MS-09
Anthracene	0.917	0.36	mg/Kg dry	1.76	ND	52.2	40-140	5.26	30	
Benzo(a)anthracene	0.995	0.36	mg/Kg dry	1.76	ND	56.7	40-140	10.4	30	
Benzo(a)pyrene	0.961	0.36	mg/Kg dry	1.76	ND	54.8	40-140	9.96	30	
Benzo(b)fluoranthene	1.04	0.36	mg/Kg dry	1.76	ND	59.3	40-140	10.7	30	
Benzo(g,h,i)perylene	0.775	0.36	mg/Kg dry	1.76	ND	44.2	40-140	2.84	30	
Benzo(k)fluoranthene	0.894	0.36	mg/Kg dry	1.76	ND	51.0	40-140	7.50 6.16	30 30	
Bis(2-chloroethoxy)methane	0.949	0.72	mg/Kg dry	1.76	ND	54.1	40-140	6.16	30	
Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether	0.925	0.72 0.72	mg/Kg dry mg/Kg dry	1.76	ND	52.7 59.2	40-140 40-140	7.56 8.05	30 30	
Bis(2-Ethylhexyl)phthalate	1.04	0.72	mg/Kg dry	1.76	ND	63.8	40-140	7.28	30	
	1.12	0.72	mg/Kg dry	1.76	ND	47.3	40-140	7.26 5.86	30	
4-Bromophenylphenylether tylbenzylphthalate	0.830	0.72	mg/Kg dry	1.76 1.76	ND ND	53.8	40-140	4.46	30	
-Chloroaniline	0.944	1.4	mg/Kg dry	1.76	ND	37.6 *	40-140	5.13	30	MS-09
2-Chloronaphthalene	0.661	0.72	mg/Kg dry	1.76	ND	42.2	40-140	8.90	30	1713-07
2-Chlorophenoi	0.740 0.891	0.72	mg/Kg dry	1.76	ND	50.8	30-130	10.6	30	
Chrysene	1.00	0.36	mg/Kg dry	1.76	ND	57.0	40-140	8.99	30	
Dibenz(a,h)anthracene	0.717	0.36	mg/Kg dry	1.76	ND	40.8	40-140	1.69	30	
Dibenzofuran	0.918	0.72	mg/Kg dry	1.76	ND	52.3	40-140	6.72	30	
Di-n-butylphthalate	0.918	0.72	mg/Kg dry	1.76	ND	54.2	40-140	5.99	30	
1,2-Dichlorobenzene	0.805	0.72	mg/Kg dry	1.76	ND	45.9	40-140	10.5	30	
1,3-Dichlorobenzene	0.779	0.72	mg/Kg dry	1.76	ND	44.4	40-140	10.0	30	
1,4-Dichlorobenzene	0.802	0.72	mg/Kg dry	1.76	ND	45.7	40-140	13.7	30	
3,3-Dichlorobenzidine	0.234	0.36	mg/Kg dry	1.76	ND	13.3 *	40-140		30	MS-09
2,4-Dichlorophenol	0.919	0.72	mg/Kg dry	1.76	ND	52.4	30-130	7.04	30	
Diethylphthalate	0.946	0.72	mg/Kg dry	1.76	ND	53.9	40-140	2.76	30	
2,4-Dimethylphenol	0.904	0.72	mg/Kg dry	1.76	ND	51.5	30-130	6.08	30	
Dimethylphthalate	0.913	0.72	mg/Kg dry	1.76	ND	52.0	40-140	6.02	30	
2,4-Dinitrophenol	0.697	1.4	mg/Kg dry	1.76	ND	39.7	30-130		30	
2,4-Dinitrotoluene	0.871	0.72	mg/Kg dry	1.76	ND	49.6	40-140	7.02	30	
2,6-Dinitrotoluene	0.939	0.72	mg/Kg dry	1.76	ND	53.5	40-140	8.98	30	
Di-n-octylphthalate	1.08	0.72	mg/Kg dry	1.76	ND	61.7	40-140	2.39	30	
1,2-Diphenylhydrazine/Azobenzene	0.866	0.72	mg/Kg dry	1.76	ND	49.3	40-140	3.13	30	
Fluoranthene	1.21	0.36	mg/Kg dry	1.76	ND	69.0	40-140	15.6	30	
Fluorene	0.939	0.36	mg/Kg dry	1.76	ND	53.5	40-140	7.60	30	
Hexachlorobenzene	0.739	0.72	mg/Kg dry	1.76	ND	42.1	40-140	7.68	30	
Hexachlorobutadiene	0.809	0.72	mg/Kg dry	1.76	ND	46.1	40-140	7.42	30	
Hexachloroethane	0.698	0.72	mg/Kg dry	1.76	ND	39.8 *	40-140	1.70	30	MS-09
Indeno(1,2,3-cd)pyrene	0.848	0.36	mg/Kg dry	1.76	ND	48.3	40-140	0.667	30	
Isophorone	0.981	0.72	mg/Kg dry	1.76	ND	55.9	40-140	8.02	30	
Methylnaphthalene	0.996	0.36	mg/Kg dry	1.76	ND	56.8	40-140	6.82	30	
Methylphenol	0.916	0.72	mg/Kg dry	1.76	ND	52.2	30-130	7.06	30	
3/4-Methylphenol	0.954	0.72	mg/Kg dry	1.76	ND	54.4	30-130	10.2	30	
Naphthalene	0.905	0.36	mg/Kg dry	1.76	ND	51.6	40-140	10.2	30	
Nitrobenzene	0.899	0.72	mg/Kg dry	1.76	ND	51.2	40-140	6.87	30	
2-Nitrophenol	0.850	0.72	mg/Kg dry	1.76	ND	48.4	30-130	6.41	30	



Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248158 - SW-846 3546										
Matrix Spike Dup (B248158-MSD1)	Sou	rce: 19L0400	-01	Prepared: 12	2/11/19 Analy:	zed: 12/12/	19			
4-Nitrophenol	0.931	1.4	mg/Kg dry	1.76	ND	53.0	30-130	1.26	30	
Pentachlorophenol	0.713	0.72	mg/Kg dry	1.76	ND	40.6	30-130	29.8	30	
Phenanthrene	1.06	0.36	mg/Kg dry	1.76	ND	60.6	40-140	9.43	30	
Phenol	0.881	0.72	mg/Kg dry	1.76	ND	50.2	30-130	5.91	30	
Pyrene	1.13	0.36	mg/Kg dry	1.76	0.242	50.9	40-140	14.6	30	V-05
1,2,4-Trichlorobenzene	0.828	0.72	mg/Kg dry	1.76	ND	47.2	40-140	6.15	30	
2,4,5-Trichlorophenol	0.848	0.72	mg/Kg dry	1.76	ND	48.3	30-130	4.07	30	
2,4,6-Trichlorophenol	0.825	0.72	mg/Kg dry	1.76	ND	47.0	30-130	1.82	30	
Surrogate: 2-Fluorophenol	3.99		mg/Kg dry	7.02		56.9	30-130			
Surrogate: Phenol-d6	3,93		mg/Kg dry	7.02		55.9	30-130			
Surrogate: Nitrobenzene-d5	1.85		mg/Kg dry	3.51		52.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.18		mg/Kg dry	3.51		62.1	30-130			
Surrogate: 2,4,6-Tribromophenol	3.82		mg/Kg dry	7.02		54.5	30-130			
Surrogate: p-Terphenyl-d14	1.89		mg/Kg dry	3.51		53.9	30-130			



Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248210 - SW-846 3546										
Blank (B248210-BLK1)				Prepared: 12	2/12/19 Anal	yzed: 12/13/	19			
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Arocior-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
aroclor-1262	ND	0.020	mg/Kg wet							
aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
rrogate: Decachlorobiphenyl	0.134		mg/Kg wet	0.200		66.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.121		mg/Kg wet	0.200		60.6	30-150			
surrogate: Tetrachloro-m-xylene	0.126		mg/Kg wet	0.200		63.1	30-150			
urrogate: Tetrachloro-m-xylene [2C]	0.127		mg/Kg wet	0.200		63.5	30-150			
.CS (B248210-BS1)				Prepared: 12	2/12/19 Anal	yzed: 12/13/	19			
Aroclor-1016	0.13	0.020	mg/Kg wet	0.200		66.9	40-140			
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		63.0	40-140			
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		64.5	40-140			
aroclor-1260 [2C]	0.11	0.020	mg/Kg wet	0.200		57.1	40-140			******
urrogate: Decachlorobiphenyl	0.143		mg/Kg wet	0.200		71.4	30-150			
urrogate: Decachlorobiphenyl [2C]	0.129		mg/Kg wet	0.200		64.7	30-150			
urrogate: Tetrachloro-m-xylene	0.130		mg/Kg wet	0.200		64.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.130		mg/Kg wet	0.200		65.0	30-150			
.CS Dup (B248210-BSD1)				Prepared: 12	2/12/19 Anal	yzed: 12/13/	19			
Aroclor-1016	0.14	0.020	mg/Kg wet	0.200		71.3	40-140	6.44	30	
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		68.5	40-140	8.38	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		69.6	40-140	7.57	30	
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		61.1	40-140	6.72	30	-verw
urrogate: Decachlorobiphenyl	0.150		mg/Kg wet	0.200		75.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.136		mg/Kg wet	0.200		68.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.141		mg/Kg wet	0.200		70.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.142		mg/Kg wet	0.200		70.8	30-150			



Metals Analyses (Total) - Quality Control

Prepared:	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Batch B248100 - SW-846 7471										
Property 27/11 Property 12/11 Property	Blank (B248100-BLK1)				Prepared: 12	2/11/19 Analy	zed: 12/12/	19			
	Mercury	ND	0.025	mg/Kg wet							
	LCS (B248100-BS1)				Prepared: 12	2/11/19 Analy	zed: 12/12/	19			
Source: 19L0400-18 Propared: 12/11/19 Analyzed: 12/12/19	Mercury	6.65	0.39	mg/Kg wet							
Source: 19L0400-18 Propared: 12/11/19 Analyzed: 12/12/19	LCS Dup (B248100-BSD1)				Prepared: 12	2/11/19 Analy	/zed: 12/12/	19			
Marix Spike (B248100-MS1) Source: 191.0400-08 Propared: 12/11/19 Analyzed: 12/12/19 Satisfies (B248100-MS1) Source: 191.0400-08 Propared: 12/11/19 Analyzed: 12/12/19 Satisfies (B248351-SW-846 30508 Source: 191.0400-08 Propared: 12/13/19 Analyzed: 12/16/19 Satisfies (B248351-SW-846 30508 Source: 191.0400-08 Propared: 12/13/19 Analyzed: 12/16/19 Source: 191.0400-08 Propared: 12/13/19 Analyzed: 12/16/19 Source: 191.0400-08 Source: 191.0400-0	Mercury	7.27	0.38	mg/Kg wet					8.91	20	
Marix Spike (B248100-MS1) Source: 191.0400-08 Propared: 12/11/19 Analyzed: 12/12/19 Satisfies (B248100-MS1) Source: 191.0400-08 Propared: 12/11/19 Analyzed: 12/12/19 Satisfies (B248351-SW-846 30508 Source: 191.0400-08 Propared: 12/13/19 Analyzed: 12/16/19 Satisfies (B248351-SW-846 30508 Source: 191.0400-08 Propared: 12/13/19 Analyzed: 12/16/19 Source: 191.0400-08 Propared: 12/13/19 Analyzed: 12/16/19 Source: 191.0400-08 Source: 191.0400-0	Duplicate (B248100-DUP1)	Son	rce: 191.0400	-08	Prepared: 12	2/11/19 Anals	/zed: 12/12/	19			
Source: 19L0400-18	Mercury				p-1001 12				NC	35	
Add	•				B			10	-		
Propared: 12/13/19 Analyzed: 12/16/19											
Prepared: 12/13/19 Analyzed: 12/16/19		0.401	0.027	mg/Kg ury	v.338	ND	112	13-123			
Artimony ND 1.7 mg/Kg wet Artimony ND 1.7 mg/Kg wet Sarium ND 1.8 mg/Kg wet Sarium Sa	Batch B248351 - SW-846 3050B			····				·			
Arsenic ND 1.7 mg/Kg wet sharium ND 1.7 mg/Kg wet sharium ND 0.17 mg/Kg wet sharium ND 0.18 mg/Kg wet sharium ND 0.50 mg/Kg wet 147 80.3 4.2-196.6 mg/Kg wet 148 mg/Kg wet 149 101 83.2-117.5 mg/Kg wet sharium ND 0.50 mg/Kg wet 147 80.3 4.2-196.6 mg/Kg wet 148 mg/Kg wet 149 101 83.2-117.5 mg/Kg wet 149 102 83.2-117.5 mg/Kg wet 150 106 82.7-117.6 mg/Kg wet 150	Blank (B248351-BLK1)				Prepared: 12	1/13/19 Analy	/zed: 12/16/	19			
Sarium ND 1.7 mg/Kg wet mg/Kg we	Antimony	ND									
ryllium ND 0.17 mg/Kg wet chromium ND 0.17 mg/Kg wet chromium ND 0.33 mg/K g wet chromium ND 0.33 mg/Kg wet ched ND 0.50 mg/Kg wet ched ND 0.33 mg/Kg wet ched ND 0.34 mg/Kg wet ched ND 0.66 mg/Kg wet ched N	Arsenic	ND	1.7								
Admium ND 0.17 mg/Kg wet Chromium ND 0.33 mg/Kg wet Chromium ND 0.67 mg/Kg wet Chromium ND 0.68 mg/Kg wet Chromium Chrom	Barium	ND	1.7								
Chromium ND 0.33 mg/Kg wet	ryllium	ND	0.17	mg/Kg wet							
ND	Jadmium	ND	0.17	mg/Kg wet							
Sickel ND 0.33 mg/Kg wet	Chromium	ND	0.33	mg/Kg wet							
Selenium ND 3.3 mg/Kg wet Selenium ND 0.33 mg/Kg wet Selenium ND 0.33 mg/Kg wet Selenium ND 0.67 mg/Kg wet Selenium	Lead	ND	0.50	mg/Kg wet							
ND 0.33 mg/Kg wet Fallium ND 1.7 mg/Kg wet Fallium ND 0.67 mg/Kg wet Fallium F	Nickel	ND	0.33	mg/Kg wet							
Tallium ND 1.7 mg/Kg wet Vanadium ND 0.67 mg/Kg wet Vince Vince ND 0.67 mg/Kg wet Vince Vince Vince ND 0.67 mg/Kg wet Vince Vi	Selenium	ND	3.3	mg/Kg wet							
Tallium ND 1.7 mg/Kg wet Vanadium ND 0.67 mg/Kg wet Vince Vince ND 0.67 mg/Kg wet Vince Vince Vince ND 0.67 mg/Kg wet Vince Vi	Silver	ND	0.33	mg/Kg wet							
Anadium ND 0.67 mg/Kg wet 12/13/19 Analyzed: 12/16/19	Thallium	ND	1.7								
ND 0.67 mg/Kg wet 12/13/19 Analyzed: 12/16/19	Vanadium		0.67	mg/Kg wet							
Antimony 118 4.8 mg/Kg wet 147 80.3 4.2-196.6 mg/Kg wet 143 101 83.2-117.5 larium 440 4.8 mg/Kg wet 415 106 82.7-117.6 larium 182 0.48 mg/Kg wet 179 102 83.2-117.3 larium 55.9 0.48 mg/Kg wet 56.2 99.4 82.9-117.3 larium 101 0.96 mg/Kg wet 101 100 82.4-116.8 larium 101 0.96 mg/Kg wet 101 100 82.4-116.8 larium 101 0.96 mg/Kg wet 105 101 82.4-116.8 larium 101 0.96 mg/Kg wet 108 103 82.9-117.6 larium 101 0.96 mg/Kg wet 108 103 82.9-117.6 larium 101 0.96 mg/Kg wet 108 103 82.9-117.6 larium 109.6 mg/Kg wet 109.8 mg/Kg wet 109.8 109.3 larium 109.8 larium 109.6 mg/Kg wet 109.8 larium 109.8 la	Zine		0.67	mg/Kg wet							
Arsenic 144 4.8 mg/Kg wet 143 101 83.2-117.5 106 starium 440 4.8 mg/Kg wet 415 106 82.7-117.6 106 107.117.	LCS (B248351-BS1)				Prepared: 12	/13/19 Analy	zed: 12/16/	19			
Arsenic 144 4.8 mg/Kg wet 143 101 83.2-117.5 arium 440 4.8 mg/Kg wet 415 106 82.7-117.6 arium 182 0.48 mg/Kg wet 179 102 83.2-117.3 arium 55.9 0.48 mg/Kg wet 56.2 99.4 82.9-117.3 arium 101 0.96 mg/Kg wet 101 100 82.4-116.8 arium 101 0.96 mg/Kg wet 125 101 82.4-116.8 arium 111 0.96 mg/Kg wet 108 103 82.9-117.6 arium 109.6 mg/Kg wet 113 101 80.8-118.6 arium 109.6 mg/Kg wet 113 101 80.8-118.6 arium 109.6 mg/Kg wet 113 101 80.8-118.6 arium 109.6 mg/Kg wet 83.7 98.9 79.8-120.7	Antimony	118	4.8	mg/Kg wet	147		80.3	4.2-196.6			
starium 440 4.8 mg/Kg wct 415 106 82.7-117.6 steryllium 182 0.48 mg/Kg wct 179 102 83.2-117.3 cadmium 55.9 0.48 mg/Kg wct 56.2 99.4 82.9-117.3 chromium 101 0.96 mg/Kg wct 101 100 82.4-116.8 ead 126 1.4 mg/Kg wct 125 101 82.4-116.8 lickel 111 0.96 mg/Kg wct 108 103 82.9-117.6 elenium 69.1 9.6 mg/Kg wct 77.9 88.7 79.3-120.7 ilver 38.1 0.96 mg/Kg wct 34.3 111 81-119.2 hallium 114 4.8 mg/Kg wct 113 101 80.8-118.6 fanadium 82.8 1.9 mg/Kg wct 83.7 98.9 79.8-120.7	Arsenic		4.8	mg/Kg wet	143		101	83.2-117.5			
deryllium 182 0.48 mg/Kg wet 179 102 83.2-117.3 dadmium 55.9 0.48 mg/Kg wet 56.2 99.4 82.9-117.3 chromium 101 0.96 mg/Kg wet 101 100 82.4-116.8 ead 126 1.4 mg/Kg wet 125 101 82.4-116.8 lickel 111 0.96 mg/Kg wet 108 103 82.9-117.6 elenium 69.1 9.6 mg/Kg wet 77.9 88.7 79.3-120.7 ilver 38.1 0.96 mg/Kg wet 34.3 111 81-119.2 hallium 114 4.8 mg/Kg wet 113 101 80.8-118.6 fanadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Barium		4.8								
Edmium 55.9 0.48 mg/Kg wet 56.2 99.4 82.9-117.3 Chromium 101 0.96 mg/Kg wet 101 100 82.4-116.8 ead 126 1.4 mg/Kg wet 125 101 82.4-116.8 lickel 111 0.96 mg/Kg wet 108 103 82.9-117.6 elenium 69.1 9.6 mg/Kg wet 77.9 88.7 79.3-120.7 ilver 38.1 0.96 mg/Kg wet 34.3 111 81-119.2 hallium 114 4.8 mg/Kg wet 113 101 80.8-118.6 fanadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Beryllium		0.48				102				
Chromium 101 0.96 mg/Kg wet 101 100 82.4-116.8 ead 126 1.4 mg/Kg wet 125 101 82.4-116.8 lickel 111 0.96 mg/Kg wet 108 103 82.9-117.6 elenium 69.1 9.6 mg/Kg wet 77.9 88.7 79.3-120.7 ilver 38.1 0.96 mg/Kg wet 34.3 111 81-119.2 hallium 114 4.8 mg/Kg wet 113 101 80.8-118.6 fanadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Cadmium		0.48				99.4				
gead 126 1.4 mg/Kg wet 125 101 82.4-116.8 flickel 111 0.96 mg/Kg wet 108 103 82.9-117.6 gelenium 69.1 9.6 mg/Kg wet 77.9 88.7 79.3-120.7 ilver 38.1 0.96 mg/Kg wet 34.3 111 81-119.2 hallium 114 4.8 mg/Kg wet 113 101 80.8-118.6 fanadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Chromium		0.96	mg/Kg wet	101		100	82.4-116.8			
flickel 111 0.96 mg/Kg wet 108 103 82.9-117.6 elenium 69.1 9.6 mg/Kg wet 77.9 88.7 79.3-120.7 ilver 38.1 0.96 mg/Kg wet 34.3 111 81-119.2 hallium 114 4.8 mg/Kg wet 113 101 80.8-118.6 fanadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Lead		1.4		125		101	82.4-116.8			
clenium 69.1 9.6 mg/Kg wet 77.9 88.7 79.3-120.7 ilver 38.1 0.96 mg/Kg wet 34.3 111 81-119.2 hallium 114 4.8 mg/Kg wet 113 101 80.8-118.6 fanadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Nickel										
ilver 38.1 0.96 mg/Kg wet 34.3 111 81-119.2 hallium 114 4.8 mg/Kg wet 113 101 80.8-118.6 fanadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Selenium										
hallium 114 4.8 mg/Kg wet 113 101 80.8-118.6 (anadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Silver										
Fanadium 82.8 1.9 mg/Kg wet 83.7 98.9 79.8-120.7	Гhallium										
	/anadium										
	Zine	236	1.9	mg/Kg wet	240		98.3	80.8-118.8			



Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248351 - SW-846 3050B										
LCS Dup (B248351-BSD1)				Prepared: 12	/13/19 Anal	yzed: 12/16	/19			
Antimony	123	4.8	mg/Kg wet	147		84.0	4.2-196.6	4.54	30	
Arsenic	148	4.8	mg/Kg wet	143		104	83.2-117.5	2.84	30	
Barium	447	4.8	mg/Kg wet	415		108	82.7-117.6	1.57	20	
Beryllium	179	0.48	mg/Kg wet	179		100	83.2-117.3	1.42	30	
Cadmium	56.2	0.48	mg/Kg wet	56.2		100	82.9-117.3	0.580	20	
Chromium	104	0.97	mg/Kg wet	101		103	82.4-116.8	2.42	30	
ead	128	1.5	mg/Kg wet	125		103	82.4-116.8	1.94	30	
lickel	112	0.97	mg/Kg wet	108		103	82.9-117.6	0.519	30	
elenium	70.1	9.7	mg/Kg wet	77.9		89.9	79.3-120.7	1.43	30	
ilver	38.6	0.97	mg/Kg wet	34.3		113	81-119.2	1.37	30	
hallium	125	4.8	mg/Kg wet	113		111	80.8-118.6	9.17	30	
/anadium	85.4	1.9	mg/Kg wet	83.7		102	79.8-120.7	3.03	30	
inc	240	1.9	mg/Kg wet	240		100	80.8-118.8	1.65	30	
uplicate (B248351-DUP1)	Sou	rce: 19L0400	-01	Prepared: 12	/13/19 Analy	zed: 12/16	/19			
ntimony	ND	1.7	mg/Kg dry		ND			NC	35	
rsenic	10.8	1.7	mg/Kg dry		11.6			7.58	35	
arium	38.3	1.7	mg/Kg dry		36.9			3.53	35	
ryllium	0.369	0.17	mg/Kg dry		0.366			1.04	35	
admium	0.225	0.17	mg/Kg dry		0.254			12.2	35	
hromium	36.0	0.35	mg/Kg dry		31.1			14.6	35	
ead	53.5	0.52	mg/Kg dry		45.7			15.8	35	
ickel	23.6	0.35	mg/Kg dry		22.4			5.58	35	
elenium	ND	3.5	mg/Kg dry		ND			NC	35	
ilver	ND	0.35	mg/Kg dry		ND			NC	35	
hallium	ND	1.7	mg/Kg dry		ND			NC	35	
anadium	58.7	0.70	mg/Kg dry		55.8			5.08	35	
nc	62.2	0.70	mg/Kg dry		57.5			7.93	35	
atrix Spike (B248351-MS1)	Sou	rce: 19L0400	-01	Prepared: 12	/13/19 Analy	zed: 12/16/	/19			
ntimony	5.29	1.7	mg/Kg dry	17.1	ND	30.9	75-125			MS-07
rsenic	28.6	1.7	mg/Kg dry	17.1	11.6	99.2	75-125			
arium	55.0	1.7	mg/Kg dry	17.1	36.9	106	75-125			
eryllium	16.1	0.17	mg/Kg dry	17.1	0.366	91.9	75-125			
admium	15.7	0.17	mg/Kg dry	17.1	0.254	90.1	75-125			
hromium	50.1	0.34	mg/Kg dry	17.1	31.1	111	75-125			
ead	63.8	0.51	mg/Kg dry	17.1	45.7	106	75-125			
ickel	40.6	0.34	mg/Kg dry	17.1	22.4		75-125			
elenium	12.4	3.4	mg/Kg dry	17.1	ND	72.3	* 75-125			MS-07
lver	16.5	0.34	mg/Kg dry	17.1	ND	96.3	75-125			
nallium	18.8	1.7	mg/Kg dry	17.I	ND		75-125			
nnadium	76.3	0.68	mg/Kg dry	17.1	55.8		75-125			
			mg/Kg dry							



QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248351 - SW-846 3050B										
Reference (B248351-SRM1)				Prepared: 12	2/13/19 Anal	yzed: 12/16/1	19			
Lead	0.450	0.50	mg/Kg wet	0.495		90.8	80-120			



Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B248096 - % Solids									
Duplicate (B248096-DUP1)	Sourc	e: 19L0400-01	Prepared &	Analyzed: 12	/11/19				
% Solids	94.1	% Wt		94.3			0.253	20	
Duplicate (B248096-DUP2)	Source	e: 19L0400-02	Prepared &	Analyzed: 12	/11/19				
% Solids	93.4	% Wt		90.8	1		2.78	20	
Duplicate (B248096-DUP3)	Source	e: 19L0400-03	Prepared &	Analyzed: 12	/11/19				
% Solids	92.2	% Wt		93.9)		1.82	20	
Duplicate (B248096-DUP4)	Source	e: 19L0400-04	Prepared &	Analyzed: 12	/11/19				
% Solids	76.8	% Wt		77.4			0.750	20	



Aroclor-1260

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Gp4-2	(6-8")	

SW-846 8082A

Lab Sample ID:		19L0400-09		Date(s) Analyz		/zed: 12/14/201	9 12/1	12/14/2019	
Instrument ID (1):		ECD10		Instrument ID (2) (2): E	ECD10		
G	C Column (1):	ID:	(m	nm) G	C Column (2):	ID:	(mm)	
	ANALYTE	COL	RT	RTW	INDOW	CONCENTRATION	%RPD		
	711712772	002	'`'	FROM	то		701117		
	Aroclor-1254	1	0.000	0.000	0.000	13			
		2	0.000	0.000	0.000	15	14.3		

0.000

0.000

0.000

0.000

51

46

10.3

0.000

0.000



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

SW-846 8082A

Lab Sample ID:	B248210-BS1		Date(s) Analyzed:	12/13/2019	12/13/201	19
Instrument ID (1):	ECD10		Instrument ID (2):	ECD10		
GC Column (1):	ID:	(mm)	GC Column (2):		ID:	(mm)

ANALYTE	COL	RT	RT WI	NDOW	CONCENTRATION	%RPD
7 11 12 1 hm 7 7 hm	002		FROM TO		CONCENTION	70111 5
Aroclor-1016	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.11	16.7



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

ı	LCS Dup	

SW-846 8082A

Lab Sample ID:	B248210-BSD1		Date(s) Analyzed:	12/13/2019	12/13	/2019
Instrument ID (1):	ECD10	-	Instrument ID (2):	ECD10		
GC Column (1):	ID:	(mm)	GC Column (2):		ID:	(mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD	
/////	002	111	FROM	TO	CONCENTION	70111 13	
Aroclor-1016	1	0.000	0.000	0.000	0.14		
	2	0.000	0.000	0.000	0.14	0.0	
Aroclor-1260	1	0.000	0.000	0.000	0.14		
	2	0.000	0.000	0.000	0.12	15.4	



FLAG/QUALIFIER SUMMARY

•	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be climinated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Reported result is estimated.



CERTIFICATIONS

ARTICOLOGY CINHAYME, VANC	Analyte	Certifications	
Article	SW-846 6010D in Soil		
Beryllion	Antimony	CT,NH,NY,ME,VA,NC	
CHRINYME VANC	Arsenic	CT,NH,NY,ME,VA,NC	
Chemium	Barium	CT,NH,NY,ME,VA,NC	
Chromium	Beryllium	CT,NH,NY,ME,VA,NC	
Content	Cadmium	CT,NH,NY,ME,VA,NC	
Nickel	Chromium	CT,NH,NY,ME,VA,NC	
Seleminn	Lead	CT,NH,NY,AIHA,ME,VA,NC	
Silver	Nickel	CT,NH,NY,ME,VA,NC	
Thallium CTNENYME, VA.NC Vanadium CTNENYME, VA.NC Zine CTNENYME, VA.NC SW-446 7471B in Soil Mercury CTNENYNC, ME, VA SW-446 7471B in Soil Arcelor-1016 CTNENYNC, ME, VA, PA Arcelor-1021 CC CTNENYNC, ME, VA, PA Arcelor-1221 CTNENYNC, ME, VA, PA Arcelor-1221 CTNENYNC, ME, VA, PA Arcelor-1222 CTNENYNC, ME, VA, PA Arcelor-1223 CTNENYNC, ME, VA, PA Arcelor-1224 CTNENYNC, ME, VA, PA Arcelor-1224 CTNENYNC, ME, VA, PA Arcelor-1224 CTNENYNC, ME, VA, PA Arcelor-1226 TRENYNC, ME, VA, PA Arcelor-1226 CTNENYNC, ME, VA, PA Arcelor-1221 CTNENYNC, ME, VA, PA Arcelor-1221 CTNENYNC, ME, VA, PA Arcelor-1221 CTNENYNC, ME, VA, PA Arcelor-1222 CTNENYNC, ME, VA, PA Arcelor-1222 CTNENYNC, ME, VA, PA Arcelor-1224 CTNENYNC, ME, VA, PA Arcelor-1224 CTNENYNC, ME, VA, PA Arcelor-1224 CTNENYNC, ME, VA, PA Arcelor-1226 CT	Selenium	CT,NH,NY,ME,VA,NC	
Thallium	Silver	CT,NH,NY,ME,VA,NC	
Zinc	Thallium		
Mercury	Vanadium	CT,NH,NY,ME,VA,NC	
Mercury	Zinc	CT,NH,NY,ME,VA,NC	
Arcelor-1016	SW-846 7471B in Soil		
Arcelor-1016	Mercury	CT,NH,NY,NC,ME,VA	
Aroclor-1016 [ZC]	SW-846 8082A in Soil		
Aroclor-1221	Aroclor-1016	CT,NH,NY,NC,ME,VA,PA	
Arcelor-1221 [2C] CT.NH.NY.NC,ME,VA,PA Arcelor-1232 CT.NH.NY.NC,ME,VA,PA Arcelor-1232 CT.NH.NY.NC,ME,VA,PA Arcelor-1242 CT.NH.NY.NC,ME,VA,PA Arcelor-1242 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 (2C] CT.NH.NY.NC,ME,VA,PA Arcelor-1254 (2C] CT.NH.NY.NC,ME,VA,PA Arcelor-1254 CT.NH.NY.NC,ME,VA,PA Arcelor-1254 CT.NH.NY.NC,ME,VA,PA Arcelor-1260 CT.NH.NY.NC,ME,VA,PA Arcelor-1260 (3C] CT.NH.NY.NC,ME,VA,PA Arcelor-1262 NH,NY.NC,ME,VA,PA Arcelor-1262 NH,NY.NC,ME,VA,PA Arcelor-1263 (3C] NH,NY.NC,ME,VA,PA Arcelor-1265 NH,NY.NC,ME,VA,PA Arcelor-1266 (3C] NH,NY.NC,ME,VA,PA Arcelor-1267 (3C] NH,NY.NC,ME,VA,PA Arcelor-1268 (3C] NH,NY.NC,ME,VA,PA Arcelor-1210 CT.NH.NY.NC,ME,VA,PA Arcelor-1211 CT.NH.NY.NC,ME,VA,PA Arcelor-1221 CT.NH.NY.NC,ME,VA,PA Arcelor-1221 CT.NH.NY.NC,ME,VA,PA Arcelor-1222 CT.NH.NY.NC,ME,VA,PA Arcelor-1223 CT.NH.NY.NC,ME,VA,PA Arcelor-1224 CT.NH.NY.NC,ME,VA,PA Arcelor-1224 CT.NH.NY.NC,ME,VA,PA Arcelor-1224 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 CT.NH.NY.NC,ME,VA,PA Arcelor-1248 CT.NH.NY.NC,ME,VA,PA	Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1232	Aroclor-1221	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1232 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1256 CT,NH,NY,NC,ME,VA,PA Aroclor-1260 CT,NH,NY,NC,ME,VA,PA Aroclor-1260 CT,NH,NY,NC,ME,VA,PA Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1268 NH,NY,NC,ME,VA,PA Aroclor-1268 (2C) NH,NY,NC,ME,VA,PA Aroclor-1268 (2C) NH,NY,NC,ME,VA,PA Aroclor-1268 (2C) NH,NY,NC,ME,VA,PA Aroclor-1268 (2C) NH,NY,NC,ME,VA,PA Aroclor-1269 (2C) CT,NH,NY,NC,ME,VA,PA Aroclor-1260 CT,NH,NY,NC,ME,VA,PA Aroclor-1212 (2C) CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 (2C) CT,NH,NY,NC,ME,VA,PA Aroclor-1248 (2C) CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1242	Aroclor-1232	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1242 [2C] CT.NH.NY.NC.ME, VA, PA Aroclor-1248 CT.NH.NY.NC.ME, VA, PA Aroclor-1248 [2C] CT.NH.NY.NC.ME, VA, PA Aroclor-1254 (2C] CT.NH.NY.NC.ME, VA, PA Aroclor-1254 (2C] CT.NH.NY.NC.ME, VA, PA Aroclor-1256 (2C] CT.NH.NY.NC.ME, VA, PA Aroclor-1260 (2C] CT.NH.NY.NC.ME, VA, PA Aroclor-1262 (2C] NH.NY.NC.ME, VA, PA Aroclor-1263 (2C] NH.NY.NC.ME, VA, PA Aroclor-1264 NH.NY.NC.ME, VA, PA Aroclor-1268 NH.NY.NC.ME, VA, PA Aroclor-1268 NH.NY.NC.ME, VA, PA Aroclor-1268 (2C] NH.NY.NC.ME, VA, PA Aroclor-1268 (2C] NH.NY.NC.ME, VA, PA Aroclor-1269 (2C] CT.NH.NY.NC.ME, VA, PA Aroclor-1210 CT.NH.NY.NC.ME, VA, PA Aroclor-1221 CT.NH.NY.NC.ME, VA, PA Aroclor-1221 CT.NH.NY.NC.ME, VA, PA Aroclor-1232 CT.NH.NY.NC.ME, VA, PA Aroclor-1232 CT.NH.NY.NC.ME, VA, PA Aroclor-1242 CT.NH.NY.NC.ME, VA, PA Aroclor-1242 CT.NH.NY.NC.ME, VA, PA Aroclor-1242 CT.NH.NY.NC.ME, VA, PA Aroclor-1248 CT.NH.NY.NC.ME, VA, PA Aroclor-1248 CT.NH.NY.NC.ME, VA, PA Aroclor-1248 CT.NH.NY.NC.ME, VA, PA Aroclor-1254 CT.NH.NY.NC.ME, VA, PA	Arocior-1232 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1256 CT,NH,NY,NC,ME,VA,PA Aroclor-1260 CT,NH,NY,NC,ME,VA,PA Aroclor-1260 CT,NH,NY,NC,ME,VA,PA Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1268 NH,NY,NC,ME,VA,PA Aroclor-1268 CT,NH,NY,NC,ME,VA,PA Aroclor-1268 CT,NH,NY,NC,ME,VA,PA Aroclor-1268 CT,NH,NY,NC,ME,VA,PA Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1211 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1242	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1260 CT,NH,NY,NC,ME,VA,PA Aroclor-1260 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1260 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1262 [2C] NH,NY,NC,ME,VA,PA Aroclor-1268 [2C] NH,NY,NC,ME,VA,PA Aroclor-1268 [2C] NH,NY,NC,ME,VA,PA Aroclor-1268 [2C] NH,NY,NC,ME,VA,PA Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1016 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1242 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-12544 CT,NH,NY,NC,ME,VA,PA	Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1260 CT,NH,NY,NC,ME,VA,PA Aroclor-1260 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1262 (2C] NH,NY,NC,ME,VA,PA Aroclor-1268 NH,NY,NC,ME,VA,PA Aroclor-1268 [2C] NH,NY,NC,ME,VA,PA Aroclor-1268 (2C] NH,NY,NC,ME,VA,PA Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1016 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1248	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1254 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1260 CT,NH,NY,NC,ME,VA,PA Aroclor-1260 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1262 [2C] NH,NY,NC,ME,VA,PA Aroclor-1268 NH,NY,NC,ME,VA,PA Aroclor-1268 [2C] NH,NY,NC,ME,VA,PA Aroclor-1268 [2C] NH,NY,NC,ME,VA,PA Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1016 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA	Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1260 CT.NH.NY.NC,ME,VA,PA Aroclor-1262 NH,NY.NC,ME,VA,PA Aroclor-1262 NH,NY.NC,ME,VA,PA Aroclor-1262 (2C) NH,NY.NC,ME,VA,PA Aroclor-1268 NH,NY.NC,ME,VA,PA Aroclor-1268 (2C) NH,NY.NC,ME,VA,PA Aroclor-1268 (2C) NH,NY.NC,ME,VA,PA SW-846 8082A in Water Aroclor-1016 CT.NH.NY.NC,ME,VA,PA Aroclor-1021 CT.NH.NY.NC,ME,VA,PA Aroclor-1221 CT.NH.NY.NC,ME,VA,PA Aroclor-1221 CT.NH.NY.NC,ME,VA,PA Aroclor-1232 CT.NH.NY.NC,ME,VA,PA Aroclor-1232 CT.NH.NY.NC,ME,VA,PA Aroclor-1242 CT.NH.NY.NC,ME,VA,PA Aroclor-1242 CT.NH.NY.NC,ME,VA,PA Aroclor-1242 CT.NH.NY.NC,ME,VA,PA Aroclor-1248 CT.NH.NY.NC,ME,VA,PA Aroclor-1248 CT.NH.NY.NC,ME,VA,PA Aroclor-1248 CT.NH.NY.NC,ME,VA,PA Aroclor-1254 CT.NH.NY.NC,ME,VA,PA	Aroclor-1254	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1260 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1268 NH,NY,NC,ME,VA,PA Aroclor-1268 (2C) NH,NY,NC,ME,VA,PA Aroclor-1268 (2C) NH,NY,NC,ME,VA,PA Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1016 (2C) CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1262 NH,NY,NC,ME,VA,PA Aroclor-1262 [2C] NH,NY,NC,ME,VA,PA Aroclor-1268 NH,NY,NC,ME,VA,PA Aroclor-1268 (2C] NH,NY,NC,ME,VA,PA SW-846 8082A in Water Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1021 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1260	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1262 [2C] NH,NY,NC,ME,VA,PA Aroclor-1268 NH,NY,NC,ME,VA,PA SW-846 8082A in Water Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1016 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1021 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1268 NH,NY,NC,ME,VA,PA Aroclor-1268 [2C] NH,NY,NC,ME,VA,PA SW-846 8082A in Water Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1016 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 (2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1262	NH,NY,NC,ME,VA,PA	
Aroclor-1268 [2C] NH,NY,NC,ME,VA,PA SW-846 8082A in Water Aroclor-1016 CT,NH,NY,NC,ME,VA,PA Aroclor-1016 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA	
Aroclor-1016	Aroclor-1268	NH,NY,NC,ME,VA,PA	
Aroclor-1016	Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA	
Aroclor-1016 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1221 CT,NH,NY,NC,ME,VA,PA Aroclor-1221 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	SW-846 8082A in Water		
Aroclor-1221	Aroclor-1016	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1221 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1232 CT,NH,NY,NC,ME,VA,PA Aroclor-1232 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1232	Aroclor-1221	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1232 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1242 CT,NH,NY,NC,ME,VA,PA Aroclor-1242 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1232	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1242 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1248 CT,NH,NY,NC,ME,VA,PA Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1242	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1248 [2C] CT,NH,NY,NC,ME,VA,PA Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1254 CT,NH,NY,NC,ME,VA,PA	Aroclor-1248	CT,NH,NY,NC,ME,VA,PA	
	Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA	
	Aroclor-1254	CT,NH,NY,NC,ME,VA,PA	



CERTIFICATIONS

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8270D-E in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
	NY,NH
	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
	CT,NY,NH
	CT,NY,NH
	CT,NY,NH
	NY,NH
	CT,NY,NH
Fluorene	NY,NH



CERTIFICATIONS

Analyte	Certifications
SW-846 8270D-E in Soil	
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D-E in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acctophenone	NY
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	CT,NY,NH
1,3-Dichlorobenzene	CT,NY,NH
1,4-Dichlorobenzene	CT,NY,NH



CERTIFICATIONS

Analyte	Certifications
SW-846 8270D-E in Water	
3,3-Dichlorobenzidine	СТ,NY,NH
2,4-Dichlorophenol	СТ,NY,NH
Diethylphthalate	СТ,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine/Azobenzene	NY
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	СТ, NY, NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenoi	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH



The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

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()	Page of	² Preservation Code	Courier Use Only	otal Number Of:	VIAIC	GLASS	PLASTIC	BACTERIA	ENCORE		Glassware in the fridge?	N/A	Glassware in freezer? Y / N	Prepackaged Cooler? Y / N	Contest is not responsible for	missing samples from prepacked	Contens	Matrix Codes:	WW = Waste Water	DW = Unnking Water A = Air	SL * Soll	SOL = Solid	define)		² Preservation Codes:	H-HC	M = Mitric Acid		1/4	Thiosulfate	O = Other (please define)		Soxhlet	Non Soxhlet	n the Chain of Custody. The nd is used to determine what or desermine what or desermine what or desermine what or desermine will not to a information, but will not to
6	ANALYSIS REQUESTED																										Please like the following and as is asset	possible sample concentration within the Conc	Code column above: H • High; M • Medium; L • Low; C • Clean; U •	Unknown		Other		AIHA-LAP,LLC	Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accinate and is used to determine what analyses the taboratory will perform. Any missing information is not the laboratory's responsibility. Con Test values your partnership on each project and will try to assist with missing information, but will not to the laboratory of the laboratory of the will not to a second the missing information, but will not to the laboratory.
Doc # 381 Rev 2_06262019	128			7.7 15.2		2V	•			500 500	יאר	/ / §	XX	×××	XX	X	 - X X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		V ×	×									MA State DW Required		WRTA		ist Labs is not responsible a legal document that mus a legal document that mus by will perform. Any miss neeship on each project and restrip on each project and the legal proj
	88	Field Filtered	Orthophosphate Samples	Field Filtered	Lab to Filter		EXCEL .			12 12 12 12 12 12 12 12 12 12 12 12 12 1		ICASS PLASFIC BACTERIA ENCORE	<i>Y</i>	*	×	+	7		+		71	í k		d)		Special Regulrements		MCP Certification Form Required	CT RCP Required RCP Certification Form Required		MA State		MWRA		Disclaimer: Con-Tr Châin of Custody Is analyses the laborals Test values your parf
<u>estlabs.com</u> CHAIN OF CUSTODY RECORD	ırnaround Time	Die Date:		°		ra Delive	₹ t		,	4	1000	_	5212 0			, / 7	3	,	 	+	1	-		- run via microwave	~	Speci	X	,			Olswa		Municipality	nfield	
http://www.contestlabs.com CHAIN OF CI	Requested Turnarou	O-Day (std)	Approval R			nat:		CLP Like Data Pkg Required:	Email To: 6 Services				6833	848	755	75.5	1 201	1058		1,55	- -	;		Per client	12/11/19mmk	ction Line means and cities					Md		□ □	םו	
2 1960 400	abs.com	τ ,	Q		Agn-7	Formati	Other:	CLP	Ema	Fax To #	2 (100 m)	253	8 6/6/2/			シクートン	(((7		1	Client Comments		61"	Dete	Total State of the	200	10 ST 17 SO	2	CAU GERT	Project Entity	Governm	City	
Phone: 413-525-2332	Fax: 413-525-6405 Email: Info@contestlabs.com	Consultans	रित	- 1	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1	CAMP So 11			4-47	UlentSenple (D / Decrept)		4'	1/2	2/2/2	004-468	2-9)3-40°	Go 4-6(3-5	104-7/3-8	7674	1 7 1 2		// Date/Time: Kv	12/21	Date/Time:	Date/Time:	17-10-11	15 C	14	1/2/12/	12/10/19 30	Date/Time:	Date/Time:		
CON-LEST	MAR		4 Hoper	V6 / 301	10: 24c Ger	(83)		Con-Test Quote Name/Number: (oient:	By: A Sure	Vork Order#						7 3	9	7	7		1	pedfox, (signature)	N	by: (Senature)	Ashed by (signature)	DV. Letonsing	4	a oy: High ture)	hv. (signature)		elinquished by: (signature)	Received by: (signature)	. Anomalo	· · · · · · · · · · · · · · · · · · ·
▋	•		Address:	Project Name	Project L	Project Number:	Project Manager;	Con-Test	Invoice R	Sampled By:													Relinquist		See Dy	Refinants	Received by	V	则	Received hv.	0	Relinquis	Received		Page 65 of 67

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples_____



Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False

Received By	BBA		Date	12/10	110	Time	2030	
How were the sample:	In Cooler		No Cooler					
received?	000.0.		INO COOIEI _		On Ice		_ No Ice	
	Direct from Sam	· -			Ambient		_ Melted Ice _	
Were samples within	<u></u>	By Gun #	2_	,	Actual Tem	1p- 4,1		
Temperature? 2-6°C	1	By Blank #			Actual Tem	p -		
Was Custody S	ieal Intact?	n/a	Wer		Tampered		11/4	
Was COC Reli	nquished?	T		-	ee With Sa		<u> </u>	
Are there broken/	leaking/loose caps	on any sam		F				
Is COC in ink/ Legible?		•		ples receiv	ed within he	olding time?	T	
Did COC include all	Client	- T	Analysis	T		er Name		
pertinent Information?	Project	1	ID's	7		Dates/Times	-	
Are Sample labels fille	d out and legible?	T						
Are there Lab to Filters'	_	F		Who was	notified?			
Are there Rushes?		F		Who was				
Are there Short Holds?		E		Who was				
s there enough Volume	?	4		***************************************				
s there Headspace who		nh	N	/IS/MSD?	F			
roper Media/Container		7		*****	amples req	uired?	F	
Vere trip blanks receive		===		On COC?	S	anoa:		
o all samples have the				nh -		Base	กโล	
	Pollalines &	STREET WATER	erestrurt arakeeses	SOURCE STREET	- Proprieta de la companya de la co			to become our conservation
Jnp-	1 Liter Amb.		4 Liter Di	la etie		4.6		
ICL-	500 mL Amb.		1 Liter Pl 500 mL P				Amb.	
1eoh-	250 mL Amb.		250 mL P				b/Clear	9
isulfate-	Flashpoint		Col./Bac				b/Clear	
10011010							ıb/Clear	
[_	Umer Glass 1		()that Wi	aetia l		End	2010	
	Other Glass SOC Kit		Other Pla				core	
hiosulfate-	SOC Kit		Plastic I	3ag	-1 . 1. 1.2	End Frozen:	core	Antigorial Commencer
hiosulfate-			Plastic I Ziploc	Bag k ≕			core	
hiosulfate-	SOC Kit		Plastic I	Bag k ≕	- 1		core	
hiosulfate- ulfuric÷::-	SOC Kit Perchlorate		Plastic I	Bag K	100 mg/s	Frozen:	Hardy St. To Carlotte St. Carlo	
hiosulfate- ulfuric	SOC Kit Perchlorate 1 Liter-Amb		Plastic I Ziploc	Bag k	100 mg/s	Frozen: 	Amb.	
hiosulfate- ulfuric- np- CL-	SOC Kit Perchlorate 1 Liter Amb 500 mL Amb.		Plastic E Ziploc 1 Liter Pl 500 mL P	Bag k astic	100 mg/s	Frozen: 16 oz 8oz Am	Amb.	
hiosulfate- ulfuric	SOC Kit Perchlorate 1 Liter-Amb 500 mL Amb 250 mL Amb		Plastic E Ziploc Um. 1 Liter Pla 500 mL Pl 250 mL P	Bag k astic lastic lastic	100 mg/s	Frozen: 16 oz 8oz Am 4oz Am	Amb. b/Clear b/Clear	
np- CL- eoh- sulfate-	SOC Kit Perchlorate 1 Liter-Amb 500 mL Amb. 250 mL Amb. Col./Bacteria		Plastic E Ziploc Liter Pla 500 mL P 250 mL P Flashpo	Bag k astic lastic lastic lastic int	100 mg/s	Frozen: 16 oz 8oz Am 4oz Am 2oz Am	Amb. b/Clear b/Clear b/Clear	
np- CL- eoh- sulfate-	SOC Kit Perchlorate 1 Liter Amb 500 mL Amb 250 mL Amb Col./Bacteria Other Plastic		Plastic E Ziploc Liter Pla 500 mL P 250 mL P Flashpo Other Gl	Bag k astic lastic lastic oint ass		Frozen: 16 oz 8oz Am 4oz Am 2oz Am	Amb. b/Clear b/Clear b/Clear	
np- CL- eoh- isulfate- l- niosulfate-	SOC Kit Perchlorate 1 Liter Amb: 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		Plastic E Ziploc Liter Pl 500 mL P 250 mL P Flashpo Other Gl Plastic E	Bag astic lastic lastic sint ass Bag		Frozen: 16 oz 8oz Am 4oz Am 2oz Am	Amb. b/Clear b/Clear b/Clear	
hiosulfate- ulfuric	SOC Kit Perchlorate 1 Liter Amb 500 mL Amb 250 mL Amb Col./Bacteria Other Plastic		Plastic E Ziploc Liter Pla 500 mL P 250 mL P Flashpo Other Gl	Bag astic lastic lastic sint ass Bag		Frozen: 16 oz 8oz Am 4oz Am 2oz Am	Amb. b/Clear b/Clear b/Clear	

MADEP MCP Analytical Method Report Certification Form														
Lab	oratory Name	-0400												
Proj	ect Location:													
	This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]													
19L0400-01 thru 19L0400-09														
Matr		Soil				****								
CAM Protocol (check all that below)														
	VOC IIIA()	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ()	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ()	6860 Perchlo CAM V	orate 'III B()							
1	SVOC IIIB (X)	7010 Metals CAM III C ()	MassDEP VPH CAM IV C ()	8081 Pesticides CAM V B ()	7196 Hex Cr CAM VI B ()	MassDEP APH CAM IX A ()								
	Metals	6020 Metals CAM III D ()	MassDEP EPH CAM IV B ()	8151 Herbicides CAM V C ()	8330 Explosives CAM VIII A ()	TO-15 VOC CAM IX B ()								
	Affirmative response to Questions A throughF is required for "Presumptive Certainty" status													
A	Were all samp properly prese method holdin	☑ Yes	□No¹											
В	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?													
С	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances? ✓ Yes □ No¹													
D	Does the labor Quality Assura Data?	☑ Yes	□No¹											
Ea	VPH, EPH, an modification(s		☐ Yes	□No¹										
Еb	APH and TO-1	5 Methods only: Was t	he complete analyte list r	eported for each method	?	☐ Yes	□No¹							
F				ard non-conformances ide to Qestions A through E)		☑ Yes	□No¹							
	A response to questions G, H and I below is required for "Presumptive Certainty" status													
G	G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM ☐ Yes ☐ No¹ protocol(s)?													
	<u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.													
Н	Were all QC po	erfomance standards s	pecified in the CAM proto	ocol(s) achieved?		□ _{Yes}	☑ _{No¹}							
ı	Were results re	eported for the complet	e analyte list specified in	the selected CAM protoc	ol(s)?	☑ Yes	□No¹							
¹ All	Negative respo	onses must be addre	ssed in an attached Er	nvironmental Laborator	y case narrative.									
thos	I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.													
Sigr	Signature: husa Worthungton Position: Technical Representative													
Prin	ted Name:	Lisa A. Worthingt	on	Date:	2/17/19									

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